



JOINT TRAINING SYSTEM PLAN

FOR THE

V-22 OSPREY

N88-NTSP-A-50-8412D/D

SEPTEMBER 2003

V-22 OSPREY**EXECUTIVE SUMMARY**

This Joint Training System Plan (JTSP) has been developed to identify all services' (Marine Corps, Air Force, and Navy) life cycle manpower, personnel, and training requirements for the V-22 Osprey Aircraft. The CV-22 System Training Plan is the Air Force Special Operations Command planning document that serves as a companion to this JTSP, providing Air Force-specific information regarding the management of the CV-22 training system. This document is based upon Program Objectives Memorandum (POM) 02 (post Quality Deficiency Report (QDR) 97) program profile – procuring 360 MV-22 Aircraft and 50 CV-22 Aircraft.

This JTSP contains all of the components included in a Navy Training Systems Plan (NTSP). As such, this JTSP can be considered a complete NTSP for the Marine Corps MV-22 and future Navy HV-22 Aircraft. The Office of Primary Responsibility (OPR) for the JTSP is Office of the Chief of Naval Operations (OPNAV), Code N789.

The V-22 Osprey Program is a Department of the Navy program responsible for developing, testing, evaluating, procuring, and fielding a tilt-rotor, Vertical Takeoff and Landing (VTOL) Aircraft for Joint Service application. The V-22 will provide the Navy, Air Force, and Marine Corps with a multi-engine, dual-piloted, self-deployable, medium lift, VTOL Aircraft to be used to conduct combat, combat support, combat service support, and special operations missions worldwide. The CV-22 is in the Engineering and Manufacturing Development phase of the Defense Acquisition System (DAS), while the MV-22 is in Production and Deployment phase of the DAS. The V-22 will achieve Initial Operational Capability in Fiscal Year (FY) 05. Marine Corps MV-22 manpower for this document came from Tables of Organization (T/O) 8595 for Marine Medium Tilt-Rotor Training Squadron (VMMT)-204 and T/O 8920 for Marine Medium Tilt-Rotor Squadron (VMM) Squadrons.

The V-22 Program is tasked to provide an aircraft to accomplish the Marine Corps' amphibious and vertical assault missions, the Navy's fleet combat support and strike rescue missions, and the United States Special Operations Command (USSOCOM) long-range Special Operations Force (SOF) support missions. The V-22 will replace the CH-46E and CH-53D helicopters in the Marine Corps, augment and replace yet to be determined aircraft in the Navy, replace USSOCOM's MH-53J and MH-60G helicopters, and reduce dependence on USSOCOM's MC-130E/H fleet. The V-22 will be capable of flying more than 2100 nautical miles with one aerial refueling, giving the Services the advantage of a VTOL Aircraft that can rapidly self-deploy to any location in the world.

The Marine Corps' Initial Operational Capability (IOC) is scheduled for FY06. The Air Force IOC is also scheduled for FY06. The Navy IOC is yet to be determined.

Maintenance concepts for the V-22 Program will be based on the Navy and Marine Corps' maintenance policies, which will be modified for each Service application. The Navy and Marine Corps will use the Naval Aviation Maintenance Program, OPNAV Instruction 4790.2 series, which details a three-level maintenance concept, organizational, intermediate, and

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depot. Interim contractor maintenance support is planned until military organic support capability is reached by the various Services.

Initial training for Developmental Test, Operational Test, and Multi-Service Operational Test Team personnel is completed. Initial training for instructor and fleet cadre personnel was completed at Marine Corps Air Station (MCAS) New River, North Carolina. Service and mission-unique training will be developed to support each Service's unique mission requirements. VMMT-204, MCAS New River, is designated the Fleet Readiness Squadron for V-22 Aircrew training; and the Maintenance Training Unit is designated Naval Air Maintenance Training Marine Unit (NAMTRA MARUNIT) Osprey, for maintenance training. MV-22 maintenance training began in October 2002. Air Force V-22 maintenance training will be provided by the 360th Training Squadron, Operating Location B, MCAS New River. A CV-22 school within the 58th Special Operations Wing at Kirtland Air Force Base, Albuquerque, New Mexico, will provide SOF peculiar Aircrew training.

Details on the Navy's HV-22 program are not available and are not addressed in this JTSP. As the information becomes available, it will be included in updates to this JTSP.

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ACDU	Active Duty
AETC	Air Education and Training Command
AFB	Air Force Base
AFOTEC	Air Force Operational Test and Evaluation Center
AFPTT	Airframes Part Task Trainer
AFSC	Air Force Specialty Code
AFSOC	Air Force Special Operations Command
AFSOCI	Air Force Special Operations Command Instruction
AFTMS	Air Force Training Management Systems
AFVT	Avionics Functional V-22 Trainer
AMEGS	Aircraft Maintenance Event Ground Station
AMTCS	Aviation Maintenance Training Continuum System
AOB	Average Onboard
APMTS	Assistant Program Manager for Training Systems
AQQU	Air Staff Acquisition
AR	Active Reserve
ATIR	Annual Training Input Requirement
BIT	Built-In Test
CAI	Computer-Aided Instruction
CANTRAC	Catalog of Navy Training Courses
CASS	Consolidated Automated Support System
CBT	Computer-Based Training
CCS	Contractor Curriculum Support
CFE	Contractor Furnished Equipment
CFY	Current Fiscal Year
CIN	Course Identification Number
CLS	Contractor Logistics Support
CM	Corrective Maintenance
CMC	Commandant of the Marine Corps
CMI	Computer-Managed Instruction
CMM	Course Model Manager
CNI	Communication, Navigation, Identification
CNO	Chief of Naval Operations
COMLANTFLT	Commander U.S. Atlantic Fleet
COMOPTEVFOR	Commander Operational Test and Evaluation Force
COMPACFLT	Commander U.S. Pacific Fleet
COMS	Contractor Operation and Maintenance of Simulators
COTS	Commercial Off-The-Shelf
CPT	Cockpit Procedures Trainer

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CPTT	Cabin Part Task Trainer
CSAR	Combat Search and Rescue
CSE	Common Support Equipment
CSI	Contractor Simulator Instruction
CVEMT	Aircraft Carrier Expeditionary Maintenance Trainer
DoN	Department of the Navy
DOT	Director of Training
DT	Developmental Test
DT&E	Developmental Test and Evaluation
ECM	Electronic Countermeasures
ECP	Engineering Change Proposal
ECS	Environmental Control System
EMD	Engineering and Manufacturing Development
ETS	Engineering and Technical Services
EUCOM	Europe Command
FAA	Federal Aviation Administration
FFS	Full Flight Simulator
FLIR	Forward Looking Infrared
FMS	Foreign Military Sales
FPT	Fleet Project Team
FRS	Fleet Readiness Squadron
FTD	Flight Training Device
FY	Fiscal Year
GFE	Government Furnished Equipment
GPETE	General Purpose Electronic Test Equipment
GPTE	General Purpose Test Equipment
GSD	Government Support Date
HMX	Marine Experimental Helicopter Squadron
HPRR	Human Performance Requirements Review
HQ	Headquarters
HSI	Human Systems Integration
ICW	Interactive Courseware
IETM	Interactive Electronic Technical Manual
IMI	Interactive Multimedia Instruction
IOC	Initial Operational Capability

V-22 OSPREY**LIST OF ACRONYMS**

IOT&E	Initial Operational Test and Evaluation
IPB	Illustrated Parts Breakdown
ISEO	In-Service Engineering Office
ITRO	Inter-service Training Review Organization
ITSS	Individual Training Standards System
ITT	Integrated Test Team
JALSP	Joint Acquisition Logistics Support Plan
JORD	Joint Operational Requirements Document
JTSP	Joint Training System Plan
LGPTT	Landing Gear Part Task Trainer
LHA	Amphibious Assault Ship (General Purpose)
LHD	Amphibious Assault Ship (Multi Purpose)
LRIP	Low Rate Initial Production
LSA	Logistics Support Analysis
MAG	Marine Aircraft Group
MATMEP	Maintenance Aviation Training Management and Evaluation Program
MCAS	Marine Corps Air Station
MCCDC	Marine Corps Combat Development Command
MCO	Marine Corps Order
MER	Manpower Estimate Report
MILCON	Military Construction
MIM	Maintenance Instruction Manual
MMH/FH	Maintenance Man-Hours per Flight Hour
MOS	Military Occupational Specialty
MOTT	Multi-Service Operational Test Team
MPTT	Mechanic Part Task Trainer
MRC	Maintenance Requirement Cards
MSD	Material Support Date
MSP	Material Support Package
MTSS	Mission Training Support System
MTU	Maintenance Training Unit
NA	Not Applicable
NALCOMIS	Naval Aviation Logistics Command Management Information System
NAMP	Naval Aviation Maintenance Program
NAMTRA MARUNIT	Naval Air Maintenance Training Marine Unit

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NAS	Naval Air Station
NATOPS	Naval Air Training and Operating Procedures Standardization
NAVAIR	Naval Air Systems Command
NAVAVNDEPOT	Naval Aviation Depot
NAVPERSCOM	Naval Personnel Command
NEC	Navy Enlisted Classification
NETC	Navy Education and Training Center
NTSP	Navy Training System Plan
NVG	Night Vision Goggles
OATMS	OPNAV Aviation Training Management System
OFT	Operational Flight Trainer
OJT	On-the-Job Training
OPEVAL	Operational Evaluation
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	OPNAV Principal Official
OPR	Office of Primary Responsibility
OT	Operational Test
OT&E	Operational Test and Evaluation
PAA	Primary Aircraft Authorization
PACOM	Pacific Command
PFY	Previous Fiscal Year
PM	Preventive Maintenance
PMA	Program Manager, Air
PMOS	Primary Military Occupational Specialty
PNEC	Primary Navy Enlisted Classification
POM	Program Objectives Memorandum
PPTA	Power Plants Training Article
PP&R	Power Plants and Related
PSE	Peculiar Support Equipment
PTT	Part Task Trainer
QDR	Quality Deficiency Report
RFT	Ready For Training
RTCASS	Reconfigurable Transportable Consolidated Automated Support System
SAF	Secretary of the Air Force

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SELRES	Selected Reserve
SMOS	Secondary Military Occupational Specialty
SNEC	Secondary Navy Enlisted Classification
SOAL-FW	Special Operations Acquisition and Logistics - Fixed Wing
SOCOM	Special Operations Command
SOF	Special Operations Forces
SOW	Special Operations Wing
SPETE	Special Electronic Test Equipment
SPTE	Special Purpose Test Equipment
SPTT	Sponson Part Task Trainer
SRA	Shop Replaceable Assembly
ST	Special Tool
STP	System Training Plan
TAR	Training and Administration of Reserves
TBD	To Be Determined
TD	Training Device
TECP	Trainer Engineering Change Proposal
TEE	Training Effectiveness Evaluation
TFIS	Trainer Fault Insertion System
TFS	Total Force Structure
TMS	Type Model Series
T/O	Table of Organization
TSA	Training Support Analysis or Training Support Agent
TTE	Technical Training Equipment
UIC	Unit Identification Code
USAF	United States Air Force
USMC	United States Marine Corps
USN	United States Navy
USSOCOM	United States Special Operations Command
VMM	Marine Medium Tilt-Rotor Squadron
VMMT	Marine Medium Tilt-Rotor Training Squadron
VMPS	V-22 Mission Planning System
VMTS	V-22 Maintenance Trainer Suite
VMX	Marine Tilt Rotor Operational Test and Evaluation Squadron
VTAS	V-22 Task Analysis System
WRA	Weapon Replaceable Assembly

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LIST OF ACRONYMS

WSPD	Weapon System Planning Document
XPM	Plans and Programs - Manpower

V-22 OSPREY**PREFACE**

This Draft Joint Training System Plan (JTSP) supersedes the Approved Joint Training System Plan, A-50-8412D/D, dated November 2000. It has been updated to comply with guidelines set forth in the Navy Training Requirements Documentation Manual and was developed in accordance with the Office of the Chief of Naval Operations Instruction (OPNAVINST) 1500.76 to identify Manpower, Personnel, and Training requirements.

The JTSP provides a summary of resources and processes planned to successfully train personnel to operate and support the V-22 Osprey weapon system. It is a living document, subject to multiple revisions as the V-22 program evolves. Separate requirements documents such as the Joint Operational Requirements Document (JORD), Weapon System Planning Document (WSPD), and other force planning documents provide the controlling authority for the information summarized here. Changes to these documents will necessitate changes to this JTSP. Successive updates and revisions to this JTSP represent a meaningful planning exercise for the successful fielding of the V-22 Osprey. Details on the Navy's HV-22 program are not available and are not addressed in this JTSP. Navy information will be included in this JTSP as it becomes available.

Core components of this JTSP, when combined with the United States Air Force (USAF) CV-22 System Training Plan (STP), provide necessary training planning for the Air Force CV-22 Aircraft. The Office of Primary Responsibility (OPR) for the CV-22 STP is Air Force Special Operations Command/Director of Training (AFSOC/DOT). Specific updates to this JTSP are as follows:

Maintenance Training Unit (MTU) 1035, a companion to the Fleet Readiness Squadron (FRS) Marine Medium Tilt-rotor Training Squadron (VMMT)-204 (from here on to be referred to as Naval Air Maintenance Training Marine Unit (NAMTRA MARUNIT) Osprey, will be the model manager and training site for inter-service training at Marine Corps Air Station (MCAS) New River, North Carolina. "A" School Core and Strand training requirements for the United States Marine Corps (USMC) and skills training requirements for the USAF have been identified. Follow-on maintenance training is being taught as validation training to Instructors and Initial Cadre personnel.

An updated description of Full Flight Simulator (FFS) and Flight Training Device (FTD) simulator acquisitions is included in this JTSP.

Parts II and III of this JTSP have been updated to reflect the most current manpower and training requirements indicated in the latest V-22 USMC Tables of Organization (T/O), USAF student throughput requirements, and newly established maintenance training courses. Part VII has been updated to reflect the current V-22 Osprey Program points of contact.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. V-22 Osprey

2. Program Elements

Department of the Navy (DoN)	64262N
United States Air Force (USAF).....	41318
United States Special Operations Command (USSOCOM)	116404

B. SECURITY CLASSIFICATION. Classification of V-22 characteristics, performance, capabilities, systems, and subsystem equipment is defined in the MV-22 Security Classification Guide, dated 16 June 1998. This JTSP is Unclassified.

- 1. System Characteristics Unclassified
- 2. Capabilities Unclassified
- 3. Functions..... Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor	CNO (N780)
	SAF/AQQU
	HQ SOCOM SOAL-FW

OPO Resource Sponsor.....	CNO (N789)
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Marine Corps Program Sponsor	CMC (APW-52)
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Developing Agency	NAVAIR (PMA275)
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Training Agency	MCCDC (C53)
	NETC
	HQ USAF
	HQ AETC
	HQ AFSOC

Training Support Agency.....	NAVAIR (PMA205)
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Manpower and Personnel Mission Sponsor.....	CNO (N12)
	NAVPERSCOM (PERS-4, PERS-404)
	CMC (ASM)
	HQ AETC/XPM
	HQ AFSOC/XPM

Director of Naval Training CNO (N00T)
Marine Corps Force Structure..... MCCDC (C-53, CMC, ASM-1)

D. SYSTEM DESCRIPTION

1. Operational Uses. The V-22 Osprey Program consists of a Joint Multi-Mission Vertical Lift Aircraft that provides the USMC, Headquarters USSOCOM, USAF, and the United States Navy (USN) with a multi-engine, dual-piloted, self-deployable, medium lift, Vertical Take-Off and Landing Aircraft to be used to conduct combat, combat support, combat service support, and special operations missions worldwide. Missions include, but are not limited to, amphibious assault, land assault, raid operations, medium cargo lift, Combat Search and Rescue (CSAR), and Special Operations Force (SOF) support. The aircraft include MV-22 for the USMC, CV-22 for USSOCOM, and HV-22 for the USN. These V-22 Aircraft are capable of conducting operations in adverse weather, during daylight hours or at night, in climates from arctic to tropical, from aviation and air capable ships [primary operating and support sea bases are Amphibious Assault (General Purpose) (LHA) and Amphibious Assault (Multi Purpose) (LHD) class ships]. The aircraft are also capable of operating from improved and austere landing sites ashore and in a variety of conventional, unconventional, and contingency combat situations including Chemical, Biological, and Radiological warfare conditions. An air refueling capability will extend the aircraft's combat mission range when required, and it will be self-supporting to the maximum extent.

2. Foreign Military Sales. Currently, there are no Foreign Military Sales (FMS) programs established. When applicable, FMS will be addressed as required and incorporated into future updates to this JTSP.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. MV-22 Developmental Test and Evaluation (DT&E) was conducted and managed by the Rotary Wing Test Directorate, NAVAIR Patuxent River, Maryland, using an Integrated Test Team comprised of Bell-Boeing and Government personnel. MV-22 Operational Test and Evaluation (OT&E) was conducted by Marine Helicopter Squadron One (HMX-1) Multi-Service Operational Test Team (MOTT) and monitored by the Commander, Operational Test and Evaluation Force (COMOPTEVFOR), Norfolk, Virginia. The MOTT consisted of selected Aircrew and engineering personnel from the Marine Corps and Air Force who received V-22 factory training. MV-22 DT&E and OT&E were successfully completed in May 2000. CV-22 DT&E and OT&E are scheduled to be performed at Edwards Air Force Base (AFB), Lancaster, California, and other AFBs. Due to refinements and the Block "A" Upgrade, further testing is required. Operational Test (OT) and Developmental Test (DT) have been reestablished at NAVAIR Patuxent River, planned for 2005.

The Integrated Test Team (ITT) located at NAVAIR Patuxent River conducts MV-22 DT&E. The contractor-led ITT includes contractor and Government Flight Engineers, Pilots, and maintenance personnel. Previous phases of testing include Full Scale Development, Engineering and Manufacturing Development, and Continuing Development Activity, which led to the initial Operational Test and Evaluation (OT&E) conducted in 1999. Marine Helicopter Squadron One

(HMX-1) conducted this OT&E, including Operational Evaluation (OPEVAL), monitored by the COMOPTEVFOR, and the Air Force Operational Test and Evaluation Center (AFOTEC).

Upon review of OPEVAL testing, the Director, Operational Test and Evaluation found the V-22 operationally effective, but not operationally suitable. This finding, coupled with two fatal mishaps in 2000 delayed the Full-Rate Production decision and began an operational pause in V-22 flight operations. During this period, the program conducted comprehensive reviews of all system safety and reliability analyses. With the help of several external assessments, the contractor redesigned several key V-22 systems including engine nacelle hydraulic and electrical systems, flight control and mission software, and mission subsystems impacting total aircraft reliability and maintainability. Key to this new development was the creation of a comprehensive developmental flight test program to thoroughly assess the aeromechanical issues raised by the mishap investigations and panel reports, and a follow-up operational test schedule that addresses all of the tactics, techniques, and procedures issues raised by the various reviews and the original OPEVAL. The ITT continues to conduct the required developmental testing, while MV-22 operational test responsibility has been moved to the newly created Marine Tilt Rotor Operational Test and Evaluation Squadron Twenty-Two (VMX-22). VMX-22 will conduct an operational assessment in Fiscal Year (FY) 04, OPEVAL Phase II in FY05, and all Follow-on Operational Test and Evaluation. Future MV-22 OT&E will occur at MCAS New River, with additional off-site operations at Yuma, Arizona, and Bridgeport, California, during OPEVAL Phase II.

CV-22 DT&E is conducted by the ITT at Edwards AFB. AFOTEC is responsible for all OT&E, and the ITT at Edwards AFB includes AFOTEC representatives. AFOTEC will conduct CV-22 Initial Operational Test and Evaluation (IOT&E) in FY06.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. The V-22 will replace the CH-46E and CH-53A/D Helicopters in the Marine Corps, replace USSOCOM's MH-53J and MH-60G Helicopters, and supplement USSOCOM's MC-130E/H fleet. CSAR requirements of the USN by the HV-22 variant will replace an as yet To Be Determined (TBD) aircraft.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The V-22 is a dual-piloted, twin engine, medium-lift, tilt-rotor aircraft that combines the speed, range, and fuel efficiency of a turboprop aircraft with the slow flight and hover capabilities of a helicopter. Its design incorporates advanced, but mature technologies in composite materials, fly-by-wire flight controls, digital cockpits, survivability, airfoil design, and manufacturing.

The V-22 fuselage has a number of advanced composite structures. A rear loading ramp and hatch configuration has been incorporated, which when closed, comprises the aft fuselage section. There is one side-entry personnel door.

The V-22 power plant (designated AE-1107C Liberty Engine) and related systems, auxiliary internal fuel capacity, and an aerial refueling capability give the V-22 the ability to

self-deploy worldwide. Changes necessary to convert the basic assault troop transport configuration for other missions will be simple and easily accomplished by organizational level maintenance personnel in field and shipboard environments.

The Block “A” Upgrade Engineering Change Proposal (ECP) 386 addresses a variety of issues relating to lines clearance, producibility, reliability, and cost reduction. The Block “A” Upgrade was required to field a safe and operational V-22 to the Fleet.

2. Physical Description. The MV-22B with ECP-386 configuration aircraft serves as the baseline design. The CV-22 configuration will include additional wing fuel tanks, a Terrain Following/Terrain Avoidance radar, and enhanced avionics packages to satisfy SOF specific mission requirements.

V-22 AIRCRAFT PHYSICAL CHARACTERISTICS

Weight, Empty.....	33,140 pounds
Weight, Maximum Take-Off.....	60,500 pounds
Length.....	57 feet, 4 inches
Height.....	22 feet, 1 inch
Fuselage Width.....	15 feet, 3 inches
Total Tilt-rotor Span.....	84 feet, 7 inches
Individual Tilt-rotor Diameter.....	38 feet, 1 inch

3. New Development Introduction. The V-22 Aircraft will be introduced as new production aircraft to replace designated aircraft at existing operating activities.

The Marine Corps will employ a phased strategy for the transition of the Marine Corps Medium Lift fleet to the MV-22 Aircraft. Twenty-two CH-46E/CH-53D squadrons will transition to the MV-22 Aircraft (18 active and four Reserve). Upon transition, each squadron will maintain an aircraft inventory (Primary Aircraft Authorization (PAA)) of 12 aircraft. The estimated time-to-train for a squadron transitioning to the MV-22 Aircraft is approximately 24-30 months (Stand-Down, Transition, Post-Transition, and Pre-Deployment Training).

4. Significant Interfaces. Not Applicable (NA)

5. New Features, Configurations, or Material. The V-22 is the first tilt-rotor aircraft to be fielded in the military. It is a hybrid aircraft, combining selected capabilities of an airplane and a helicopter. The Federal Aviation Administration (FAA) has classified tilt-rotors as powered lift aircraft, neither airplane nor rotorcraft. The V-22 uses many unique items to achieve its configuration and capability. The airframe incorporates new materials and structural designs. Advanced avionics provide mission enhancement while new wiring technologies increase reliability and reduce weight. New hydraulic technology is also applied. Redundant digital systems such as fly-by-wire flight controls are used in lieu of traditional hybrid redundancies. New processes are applied in the operation and maintenance of the V-22. Examples include the V-22 Mission Planning System (VMPS) used by the aircrew before flight to plan a mission and then to perform preflight mission computations to ensure mission feasibility and conformance to approved flight envelopes. The VMPS also provides postflight mission analysis capabilities to compare the mission planned with the actual mission flown.

Another example is the Aircraft Maintenance Event Ground Station (AMEGS) used between flights to automatically identify defects and conduct trend analysis to predict future maintenance actions.

H. CONCEPTS

1. Operational Concept. The V-22 Aircraft is manned by a Pilot, Copilot, and enlisted aircrew appropriate for the specific service and type of mission being flown. The V-22 is optimized to transport troops (i.e., 24 combat-equipped Marines) or 15,000 pounds of external cargo to austere landing sites from aviation capable amphibious ships and expeditionary forward operating bases ashore.

2. Maintenance Concept. The maintenance concept for the V-22 is based on a Logistics Support Analysis (LSA) of the aircraft's maintainability, life cycle cost, maintenance engineering, and logistics support requirements. The Naval Aviation Maintenance Program (NAMP), OPNAVINST 4790.2 series, and Air Force Special Operations Command Instruction (AFSOCI) 21-106 provide general guidance regarding the various services' maintenance concepts. For the Navy and Marine Corps, the NAMP details three levels of maintenance (i.e. organizational, intermediate, and depot) and provides an organizational structure to collect supporting data.

The Air Force will use a two-level (organizational and depot) maintenance concept for avionics and engines. The remaining systems will be maintained through three levels of maintenance. During DT&E, maintenance and logistics support is the responsibility of the contractor, Bell-Boeing. During OT&E, organizational maintenance will be performed by factory-trained personnel from the MOTT. The contractor will provide intermediate maintenance support for DT&E and OT&E.

a. Organizational. Operating units normally perform organizational level maintenance actions on a day-to-day basis in support of their own mission. These actions are generally classified as Preventive Maintenance (PM) and Corrective Maintenance (CM). The AE-1107C Liberty Engine will be maintained under a commercial two-level maintenance concept where the contractor (Allison Engine, part of Rolls-Royce) provides for all aircraft maintenance beyond the organizational level at Rolls-Royce repair centers. The USN, USMC, and United States Air Force will only be responsible for performing AE-1107C Liberty Engine organizational level maintenance.

(1) Preventive Maintenance. PM consists of periodic prescribed inspections and servicing of the aircraft, systems, and subsystems as detailed in the aircraft's Maintenance Requirement Cards (MRC) and Maintenance Plan.

(2) Corrective Maintenance. CM is performed by organizational level maintenance personnel using Built-In Test (BIT), Peculiar Support Equipment (PSE), and Common Support Equipment (CSE) to fault isolate defective Weapon Replaceable Assemblies (WRA) and Line Replaceable Units. CM includes repairs to power plants, airframes, aircraft wiring, and connectors. Defective WRAs are forwarded to the Intermediate Maintenance Activity for repair and processing.

b. Intermediate. Intermediate level maintenance actions are those performed in support of user activities that are beyond the capabilities of organizational level maintenance. These actions include test, repair, calibration, and modification of aeronautical equipment, repair and calibration of support equipment, and disposition of assets from stricken aircraft. Intermediate level maintenance will be performed to verify faulty WRAs and isolate to a faulty Shop Replaceable Assembly (SRA), or component, using the appropriate test equipment. The faulty SRA will be removed, repaired, and replaced, and WRA performance verified by the appropriate test equipment. Depending on the system involved, the Air Force will perform some of these maintenance tasks at the organizational or depot level to support the two-level maintenance concept.

c. Depot. Depot level maintenance actions normally require repair, major overhaul, or a complete rebuilding, manufacture, or modification of parts, assemblies, sub-assemblies, and end items beyond the capabilities of intermediate level maintenance. Naval Aviation Depot (NAVAVNDEPOT) MCAS Cherry Point, North Carolina, is planned to be the depot repair site for all Marine Corps and Air Force V-22 Aircraft (less engines). Rolls-Royce will perform depot level maintenance for the engines.

d. Interim Maintenance

(1) Phased Support Concept. Maintenance responsibility under the phased support concept is a Joint Services-contractor effort until the V-22 systems demonstrate the level of reliability required for complete organic support. Early organic capability will be established for systems demonstrating acceptable reliability, maintainability, and supportability. This concept will be in effect until the full Material Support Date (MSD) of FY08 is achieved. The Organic Support Date for the Marine Corps and Air Force is FY09.

(2) Sources of Technical Support. The Marine Corps will have crash damage depot repair capabilities at NAVAVNDEPOT, MCAS Cherry Point. The planned Government Support Date (GSD) for the V-22 is FY09. Engineering and Technical Services (ETS) will provide all required technical assistance until the GSD. ETS will also provide required technical assistance for the Air Force.

e. Life Cycle Maintenance Plan. The V-22 has a minimum service life of 20 years and contains diagnostics using automatic, semi-automatic, and manual means. It is the first military aircraft to use the AMEGS. AMEGS is a maintenance data system that uses downloaded data from a data storage system in the aircraft as input to the Naval Aviation Logistics Command Management Information System (NALCOMIS) and the Core Automated Maintenance System for the purpose of immediate identification and assessment of aircraft discrepancies. The intent of the V-22 AMEGS software is to generate an evaluation of an aircraft's post-flight or post-ground run operational status for the identification of necessary maintenance actions in line with the on-condition maintenance philosophy. The V-22 AMEGS application may be utilized as a stand-alone software application or as an interfaced client, on the Navy's NALCOMIS and Air Force networks. AMEGS is Government furnished and will be assessed for workability and reliability from the standpoint of the V-22 Weapon System. AMEGS capabilities and requirements will be evaluated, along with its planned integration with NALCOMIS Phase III.

3. Manning Concept. Navy and Marine Corps qualitative and quantitative manpower requirements for the operation and support of the V-22 were developed using LSA under an Engineering and Manufacturing Development (EMD) contract. Maintenance manpower requirements were generated by the contractor using LSA data and Maintenance and Material Management data from comparable aircraft systems (CH-46E Aircraft). Particular JORD requirements for the V-22 include the specific manpower structure to operate and maintain the aircraft over a period of time in a developed workload mode. T/Os have been developed for the MV-22 based on a 12 aircraft operating squadron and one 40 aircraft training squadron (VMMT-204). For detailed information on Marine Corps manpower, refer to Element II.A.1.b of this JTSP.

Marine Tilt Rotor Operational Test and Evaluation Squadron (VMX) 22 will be established at MCAS New River in October 2003. VMX-22 will be augmented by VMMT-204 personnel. VMX-22 will receive all MV-22 Aircraft directly from the factory before turning the aircraft over to OPEVAL. Upon completion of OPEVAL and the Milestone III decision, excess aircraft in VMX-22 will be transferred to VMMT-204 to support their return to flight.

The Air Force manpower requirements will also be derived using the LSA data during EMD. Air Force requirements will be based on target labor analysis and target labor hours per flying hour. Standard Air Force skills (levels 9, 7, 5, and 3) will be used. The aircraft will be operationally maintained by all levels of personnel. For information concerning Air Force manpower requirements, refer to the V-22 Manpower Estimate Report (MER) dated 22 September 2000.

Note: Manpower requirements for the Navy are still in the planning stages. Information concerning the requirements for the development of squadron manpower documents and newly established Navy Enlisted Classification (NEC) codes will be included in this JTSP when it becomes available.

USMC activities, T/Os, and dates used to prepare this JTSP are listed below.

ACTIVITY TYPE	ACTIVITY NAME	T/O NUMBER	DATE
Marine Medium Tilt Rotor Squadron	VMM	8920	August 2002
Marine Medium Tilt Rotor Training Squadron	VMMT-204	8595	March 2002
Naval Air Maintenance Training Marine Unit	NAMTRA MARUNIT New River	8594	September 2001

a. Aircrew Planning Factors. Marine Corps Aircrew manpower requirements were developed per OPNAVINST 5310.21 and are based on the number of aircraft, flight hours

per aircraft per month, seat factors, and crew ratios. USAF manpower requirements were provided by the Air Force Personnel Center. Table I-1 provides a summary of Aircrew configurations, manning factors, and their applicable Military Occupational Specialty (MOS) and Air Force Specialty Code (AFSC). Table I-2 provides projected aircraft utilization rates.

TABLE I-1. AIRCREW CONFIGURATIONS AND MANNING FACTORS

POSITION	MOS/AFSC	CREW RATIO	SEAT FACTOR
Marine Corps:			
Pilot	7532	1.2	1
Copilot	7532	1.2	1
Crew Chief	6176	1.6	1
Air Force:			
Pilot	11SYX	2.0	1
Copilot	11SYX	2.0	1
Flight Engineer	1A1X1B	2.0	2

TABLE I-2. PROJECTED AIRCRAFT UTILIZATION

ACTIVITY	AIRCRAFT PER ACTIVITY	AVERAGE SORTIE HOURS
MV-22 (USMC)	12	3.0
CV-22 (USAF)	7	5.0
VMMT-204	40	2.0

b. Maintenance Manpower Planning Factors. Marine Corps maintenance manpower requirements are based on the total Maintenance Man-Hours per Flight Hour (MMH/FH), number of maintenance working shifts, and standard workweek calculations for a deployed-duty activity. Refer to the CV-22 STP for Air Force manpower planning factors. Tables I-3 and I-4 show organizational and intermediate MOSs and the USAF AFSCs by work center.

TABLE I-3. ESTIMATED ORGANIZATIONAL MMH/FH

WORK CENTER	MOS	AFSC	MMH/FH**
110	6116*	2A6X1B, 2A6X4	3.99
12A	6156	2A7X3, 2A7X1	1.60
12B	6156	2A6X5	0.85
12C	6156	2A7X2	0.56
13A	6060	2A7X4	0.02
13B	6086	1T1X1, 2A6X6	0.38
210	6326	2A3X2	0.52
220	6326	2A6X6	1.28
230	6531	2W1X1	0.26
310	6072, 6176	2A5X2	1.26
		Total MMH/FH	10.72

* USMC Tilt Rotor Mechanics (MOS 6116) are normally assigned to Work Center 310, but are shown here in Work Center 110 for clarity in tracking training.

** MMH/FH is based on an early sampling of information and is subject to change as new information becomes available.

TABLE I-4. ESTIMATED INTERMEDIATE MMH/FH

WORK CENTER	MOS	AFSC*	MMH/FH**
410	6126		0.38
440	6132		1.00
510	6092		0.43
520	6094		0.72
530	6092, 6044		0.02
610	6413		0.99
620	6433		1.24
640	6483		0.86
810	6060		0.06

* The Air Force does not have specific AFSCs for intermediate level maintenance.

** MMH/FH is based on an early sampling of information and is subject to change as new information becomes available.

c. Enlisted Maintenance Instructor Manpower Requirements. Enlisted organizational level maintenance instructor requirements for MTU 1035 were based on the methodology contained in the Inter-service Training Review Organization (ITRO). Enlisted instructor requirements are listed as part of NAMTRA MARUNIT MCAS New River manpower.

Air Force instructor requirements at MCAS New River were calculated by the ITRO methodology. Table I-5 lists Air Force instructor AFSCs. These AFSCs are pending approval and are included in the Air Force CV-22 STP.

TABLE I-5. USAF INSTRUCTOR REQUIREMENTS

AFSC	TITLE
2A6X1B	Aerospace, Turboprop, and Turboshift Propulsion (Engines)
1A1X1B	Loadmaster
2A6X5	Aircraft Pneudraulics
2A3X2	Integrated Avionics Specialist
2A5X2	Crew Chief
2A6X6	Aircraft Electrical and Environmental Systems

d. Fleet Project Team. A Fleet Project Team (FPT) has been established to assist and advise in the development of the operator and maintainer training systems. The FPT is composed of knowledgeable representatives from user and non-user activities consisting of DoN, USAF, and USMC qualified military and civilian personnel per OPNAVINST 5000.50A and the CV-22 STP.

4. Training Concept. Pilot and Crew Chief training for the V-22 Aircraft will be accomplished by VMMT-204, MCAS New River. V-22 organizational maintenance training will be accomplished by NAMTRA MARUNIT Osprey at MCAS New River. All V-22 training is currently in place, although it is being modified.

The Marine Corps plans to implement a Mission Training Support System (MTSS) to provide follow-on support for the V-22 operator and maintenance training program. All functions of simulator support (simulator and academic instruction, maintenance and operation, curriculum and supply support, and auxiliary management) will be integrated into one contract. Under this concept, the contractor will be responsible for:

- **Contractor Operation and Maintenance of Simulators.** Contractor Operation and Maintenance of Simulators will ensure all V-22 primary Training Devices (TD) are maintained and operationally available 16 hours per day, five days per week, 50 weeks per year. These TDs include the Cockpit Procedures Trainer (CPT), V-22 Maintenance Trainer Suite (VMTS), Full Flight Simulator (FFS), and the Flight Training Device (FTD).
- **Contractor Simulator Instruction.** Contractor Simulator Instruction (CSI) is being performed at VMMT-204. CSIs provide instruction in MV-22 aircrew training devices. This requirement for instruction began with the training of the VMMT-204 Instructor Pilot cadre. CSIs provide simulator instruction in the FFS and FTD. The CSIs conduct briefings, debriefings, syllabus flights, and evaluate Pilot performance. Once the instructor cadre is trained, CSIs instruct all simulator training and replacement events in support of VMMT-204. This training includes initial Aircrew training, transition/conversion training, refresher training, as well as follow-on instructor training. After completing an established CSI training and mobilization period, CSIs will be certified by the model manager. CSIs will be required to attend VMMT-204 Instructor Standardization meetings, Air Force requirements lectures, complete semi-annual standardization evaluations, and complete annual Naval Air Training and Operating Procedures Standardization (NATOPS) and instrument checks in the simulator to remain certified.
- **Contractor Curriculum Support.** Contractor Curriculum Support (CCS) is required to maintain, update, and revise curriculum and instructional standards. CCS will:
 - Manage changes and revisions to existing curriculum
 - Assist in the development of new curriculum
 - Maintain quality assurance
 - Establish, monitor, and regulate evaluation programs
 - Ensure instructor currency

- **Contractor Supply Support.** Contractor supply support provides for the repair, replacement, and upkeep of the training system Material Support Package (MSP). The MSP will be used to support trainer operation and maintenance as specified under MTSS. The contractor provides for the repair and replenishment of all simulator and trainer peculiar items, as well as bit piece parts. The Government will provide any aircraft common equipment and parts through the Government military supply system.
- **Management and Auxiliary Support.** Management and auxiliary support provides a contractor site representative, clerical assistance, janitorial services, and facility access control at each simulator and trainer site. The contractor, under the supervision of NAVAIR Orlando, (In-Service Engineering Office - ISEO), provides trainer software support at MCAS New River.
- **Training in Support of Engineering and Manufacturing Development.** During EMD, the contractor-provided factory training at contractor and Government facilities will coincide with the needs of the V-22 Flight Test schedule. Organizational level training was developed and taught by Bell-Boeing at VMMT-204. Training for DT and OT is complete.

a. Human Performance. A requirements analysis identified the physical and functional requirements of the V-22 training system to meet operational and maintenance training needs. The operational training needs are those human task performance requirements that enable aircrews to accomplish their missions and technicians to maintain the aircraft in mission ready condition. Human performance requirements are stated in the individual, team, and collective tasks required to operate and maintain the V-22 Aircraft. Optimizing performance of these tasks will ensure readiness on the part of the aircrew to perform its assigned mission. Various analyses were conducted in support of the front-end decision making process. Performance effectiveness and physical capabilities were identified, including sensory, cognitive, and decision making skills of personnel who will operate and maintain the V-22 systems. For access to analyses data and individual reports, contact Program Manager, Air (PMA) 275. Training system requirements driven by results of these analyses are documented in Parts II, III, and IV of this JTSP.

During earlier phases of the V-22 acquisition, Bell-Boeing performed a task analysis using logistics support analysis data and human engineering principles. Tasks were selected for training based on frequency of performance, task importance to mission performance, task difficulty level, and skill delay factors. The task selection process was supported by the Bell-Boeing developed V-22 Task Analysis System (VTAS), an automated decision support system that maintains an audit trail to LSA data. Subsequent to the task analysis the V-22 training task list, the task analysis results were presented to a USMC jury of experts for approval. The V-22 training design strategy provides consideration for an evolutionary approach. Initial training was provided by Bell-Boeing. Bell-Boeing has developed the initial training system using the MV-22B as the baseline. Training courses have been designed in modules to provide the opportunity to select which courses, or portions of courses, best meet training requirements (based upon service unique missions, student entry levels, prior experience, etc.). Service-unique training not included in the modular “core” training will be developed at a later date to fulfill those requirements. V-22 training for the

Selected Reserve (SELRES) is undetermined. As SELRES training requirements are identified, they will be included in updates to this JTSP. The following analyses were conducted in support of the V-22 training system selection and implementation.

(1) Training Situation Analysis. Bell-Boeing has prepared a Training Situation Analysis (TSA) to determine the changes required to the existing V-22 training system in order to meet V-22 training needs and has provided the results to the Government. The TSA will be updated as required. The TSA has considered the impact to both the operator and maintainer training programs and includes recommendations to modify or procure necessary training equipment/materials.

(2) Mission and Task Analysis. Bell-Boeing has analyzed the impact of V-22 missions, and related individual and collective tasks. Existing tasks that are impacted by V-22 were analyzed for difficulty level, frequency, importance, and skill decay factors, and the listing of V-22 tasks requiring training was updated. This source data was used to develop an Instructional Performance Requirements Document that contained the data to support the design of the V-22 training program.

(3) Media Analysis. Bell-Boeing used the task analysis results to identify the most effective media that supports the sensory stimulus required of each task. Bell-Boeing developed and provided the Government an Instructional Media Requirements Document to serve as the baseline for the instructional media performance specifications. This document contains a description of the primary and alternate media requirements and the functional requirements for the instructional delivery. Bell-Boeing analyzed the existing systems for inclusion, exclusion, or modification and investigated the use of Computer-Based Training (CBT) to supplement classroom instruction. Based on the results of this analysis, Bell-Boeing provided recommendations for the design and implementation of the V-22 training program that includes safety, hazard, and environmental considerations.

(4) Training System Management and Support. The maintenance training courses are managed by the Course Model Manager (CMM), NAMTRA MARUNIT Osprey, MCAS New River. The CMM is responsible for course configuration control and logistics support requirements.

(a) Maintaining Training System Currency. The Program Manager - AIR PMA205, (Assistant Program Manager for Training Systems (APMTS)) is responsible for reviewing all V-22 Engineering Change Proposals and assessing their impact on the training system. The APMTS is responsible for courseware currency for the V-22 Aircraft. VMMT-204 and NAMTRA MARUNIT Osprey are responsible for maintaining the courseware currency for mission tactics and maintenance practices, respectively. The Training Element Manager also ensures that changes to basic equipment include provisions to modify training equipment, and update training courses and curricula as necessary to maintain effective up-to-date training capabilities. Following the end of Bell-Boeing's interim training system support period, the day-to-day maintenance and support of operator trainers is funded by the Type Commander and managed by VMMT-204 under a Contractor Operation and Maintenance of Simulators (COMS) or Contractor Logistics Support (CLS) contract. Training system engineering changes that are not related to the V-22 Aircraft configuration (i.e., rehosting of

software, modernization, etc.) are managed similarly with the aircraft engineering change process under NAVAIR's Trainer Engineering Change Proposal (TECP) system.

(b) Training Effectiveness Evaluations. The Naval Education and Training Command (NETC) via Chief of Naval Education and Training (CNET) Instruction 1500.30) established policy, procedures, and responsibility for the administration and operation of the NETC training feedback program. This program provides a web-based homepage template containing a training feedback form icon. Each school is to develop a form following this format with a link back to NETC's homepage at <https://www.cnet.navy.mil>. This web page form is used to receive feedback on any training issue, training concern, or to make general recommendations. A Fleet partnership program will also be established to develop a close relationship with representative samples of customers to evaluate the quality of the trained graduates and the relevance of skills trained.

In conjunction with this Fleet feedback program, a Human Performance Requirements Review (HPRR) process is required by OPNAV Instruction 1500.69A. HPRRs provide a process for resource and program sponsors to identify and correct training deficiencies.

(c) V-22 Design Influence On Human Performance. The V-22 Aircraft is receiving enhancements to reliability and maintainability and is in OPEVAL Phase II. All new design systems and software address the human-machine interface for operators, maintainers, and support personnel. The design processes conform to standard human engineering practices as defined in existing human factors engineering design standards. All new hardware and software minimizes the requirement for special cognitive, physical, or sensory requirements of V-22 operators, maintainers, or support personnel beyond those available in the USMC personnel resources. Pilot and aircrew training will include an integrated sequence of CBT, simulator exercises (both individual and team), and flight regimes. Maintenance training will include a blend of CBT, Practical Application, and Practical Job Training.

(d) Training Media Delivery and Evaluation. The training delivery method for the V-22 system will include formal schoolhouse, informal training, a Training Management System (TMS), deployable training, and all training devices necessary to conduct the most effective training. The training delivery method is based on the results of learning and media requirements analysis. Instruction will be provided using the following media:

- Interactive Media Instruction (IMI)
 - Interactive Courseware (ICW) (aircrew and maintenance)
 - Computer-Aided Instruction (CAI) (maintenance only)
- Simulators
- Part Task Trainers (PTT)
- Aircraft Maintenance Trainers
 - Computer-Managed Instruction (CMI)

It is the intent of the V-22 Training System Program to incorporate IMI into the V-22 Training System. The depth and range of the IMI used is being determined during the development of production training. Programmatic requirements, such as Continuous Acquisition and Life Cycle Support and IETMs, are being considered during the development of the training program. IMI is a group of CBT and training support products. IMI includes both CAI and self-paced ICW. It is the intent of the V-22 Training System Program to produce ICW for MV-22 Pilots and ICW and CAI for MV-22 maintenance personnel; the curriculum will be in place at MCAS New River in March 2005. IMI for the CV-22 Pilot course was contracted in November 2000 with an RFT date at MCAS New River of March 2005. IMI for the CV-22 maintenance courses as contracted during October 2001 with an RFT date at MCAS New River of July 2005.

(e) Analysis Supporting Training Design and Selection.

Various analyses were conducted in support of the front-end decision-making process. Raw data for analyses is stored in the V-22 Integrated Digital Environment (IDE). For access to analyses data and individual reports, contact PMA275. Training system requirements driven by results of these analyses are documented in Parts II, III, and IV of this JTSP.

(f) Training System Management and Support. Design changes are effected by the approval of Engineering Change Proposals (ECP), which results in the issuance of Airframe Changes (AFC) and Power Plant Changes (PPC). When ECPs are in the review process, a copy is routed to the Assistant Program Manager for Training Systems (APMTS) in PMA205. The APMTS evaluates the ECP and determines if modifications are required to courseware and trainers/simulators. If changes are required, the APMTS funds the requirement. Changes are incorporated and the modified courseware is turned over to the Model Manager. Once the Model Manager has cognizance of the courseware, minor changes are incorporated by the Model Manager. Any major changes required to courseware are usually the result of feedback from the Fleet or through the approval of an ECP.

(g) Reserves. NA

(h) Shareable Content Object Reference Model. All V-22 training courses will be Shareable Content Object Reference Model (SCORM) conformant after the Block A Upgrade course modifications have been completed in FY05.

b. Initial Training. The first squadron to receive MV-22B Aircraft was VM MT-204. Aircrew, maintenance instructor, and initial cadre training performed by Bell - Boeing at VM MT-204 and NAMTRA MARUNIT Osprey began in November 1998 and ended in February 2001. Navy initial training has not yet been determined.

Title **CV-22 Pilot Delta Operator Course**

Description This course provided the USAF Pilot with CV-22 difference information from the MV-22 Aircraft. Upon completion, the graduate was able to perform as an Initial Cadre CV-22 Pilot in a squadron environment.

Location MTU 1035 NAMTRA MARUNIT Osprey
MCAS New River

Length 5 days

RFT dates ° 20 - 24 September 1999 (completed)
° 18 - 22 February 2001 (completed)

TTE/TD CV-22 Aircraft

Prerequisite Assigned as an Initial Cadre Pilot for the CV-22 Aircraft.

Title **CV-22 Maintenance Delta Course for Avionics and Fuel Systems (Advanced Cadre)**

Description This course provided the USAF maintenance technician with CV-22 difference information from the MV-22 Aircraft. Upon completion, the graduate was able to perform organizational maintenance on the CV-22 Aircraft in a squadron environment.

Location MTU 1035 NAMTRA MARUNIT Osprey
MCAS New River

Length 5 days

RFT date 18 - 22 February 2001 (completed)

TTE/TD CV-22 Aircraft

Prerequisite Assigned as Initial Cadre for the CV-22 Aircraft.

Title **CV-22 Maintenance Delta Course for Avionics and Fuel Systems (Initial Cadre)**

Description This course provided the USAF maintenance technician with CV-22 difference training, including:

- ° CV-22 Power Plant Differences
- ° CV-22 Fuel Systems Differences
- ° CV-22 Avionics Differences
- ° CV-22 Publications and Safety Procedure Differences
- ° CV-22 Test and Support Equipment Differences

Upon completion the graduate was able to perform as Initial Cadre for the CV-22 Aircraft in a squadron environment without supervision.

Location MTU 1035 NAMTRA MARUNIT Osprey
MCAS New River

Length 16 days

RFT date 5 - 20 June 2000 (completed)

TTE/TD MV-22B Aircraft

Prerequisite Assigned as Initial Cadre for the CV-22 Aircraft

Title **MV-22B LRIP Pilot Ground Course (Validation)**

Description This course provided training to the MV-22B Instructor Pilot, including:

- ° MV-22B Operation and Safety Procedures
- ° Pilot Ground School
- ° Pilot Ground School Basic
- ° Pilot Ground School Refresher
- ° Flight Training

Upon completion, the graduate was able to safely and effectively perform as an MV-22B Aircraft Instructor Pilot in a squadron environment.

Location MTU 1035 NAMTRA MARUNIT Osprey
MCAS New River

Length 9 days

RFT date 4 - 12 January 2000 (completed)

TTE/TD MV-22B Aircraft

Prerequisite Assigned as an Instructor Pilot for the MV-22B Aircraft

Title **MV-22B LRIP Pilot Ground Course**

Description This course provided training to the MV-22B Instructor Pilot, including:

- MV-22B Operation and Safety Procedures
- Pilot Ground School
- Pilot Ground School Basic
- Pilot Ground School Refresher
- Flight Training

Upon completion, the graduate was able to safely and effectively perform as an MV-22B Aircraft Instructor Pilot in a squadron environment.

Location VMMT-204 FRS, MCAS New River

Length 11 days

RFT dates ◦ 7 - 17 February 2000 (completed)
◦ 19 - 30 July 2000 (completed)

TTE/TD MV-22B Aircraft

Prerequisite Assigned as an Instructor Pilot for the MV-22B Aircraft

Title **MV-22B EMD Pilot Ground Course**

Description This course provided training to the MV-22B Initial Cadre Pilot, including:

- MV-22B Operation and Safety Procedures
- Pilot Ground School
- Pilot Ground School Basic
- Pilot Ground School Refresher
- Flight Training

Upon completion, the graduate was able to safely and effectively perform as an MV-22B Aircraft Initial Cadre Pilot in a squadron environment.

Location VMMT-204 FRS, MCAS New River

Length 5 days

RFT date 12 - 16 July 1999 (completed)

TTE/TD MV-22B Aircraft

Prerequisite Assigned as an Initial Cadre EMD Pilot for the MV-22B Aircraft.

Title **MV-22B Pilot Ground Course (Instructors)**

Description This course provided training to the MV-22B Instructor Pilot, including:

- ° MV-22B Operation and Safety Procedures
- ° Pilot Ground School
- ° Pilot Ground School Basic
- ° Pilot Ground School Refresher
- ° Flight Training

Upon completion, the graduate was able to safely and effectively perform as an MV-22B Aircraft Instructor Pilot in a squadron environment.

Location VMMT-204 FRS, MCAS New River

Length 16 days

RFT dates..... ° 22 February - 9 March 1999 (completed)
° 10 - 24 July 2000 (completed)
° 14 - 28 August 2000 (completed)

TTE/TD MV-22B Aircraft

Prerequisite Assigned as an Instructor Pilot for the MV-22B Aircraft.

Title **MV-22B Pilot Ground Course (Initial Cadre)**

Description This course provided training to the MV-22B Pilot Instructor and Initial Cadre Pilot, including:

- ° MV-22B Operation and Safety Procedures
- ° Pilot Ground School
- ° Pilot Ground School Basic
- ° Pilot Ground School Refresher
- ° Flight Training

Upon completion, the graduate was able to safely and effectively perform as an MV-22B Aircraft Initial Cadre Pilot in the in a squadron environment.

Location VMMT-204 FRS, MCAS New River

Length 12 days

RFT date 11 - 22 September 2000 (completed)

TTE/TD MV-22B Aircraft

Prerequisite Assigned as an Initial Cadre Pilot for the MV-22B Aircraft.

Title MV-22B Aircrew Familiarization Course (Crew Chief)

Description This course provided training to the Aircrewman (USMC Crew Chief, USAF Crew Chief, or USAF Flight Engineer), including:

- Aircraft Systems and Safety Procedures
- Ground Safety
- Operating Procedures
- Publications
- Preflight, Postflight, Turnaround, and Daily Inspections

Upon completion, the graduate was able to perform as a Initial Cadre MV-22B Aircraft Crew Chief in a squadron environment.

Location VMMT-204 FRS, MCAS New River

Length 5 days

RFT date 29 March - 2 April 1999 (completed)

TTE/TD MV-22B Aircraft

Prerequisite Assigned as an Initial Cadre Crew Chief for the MV-22B Aircraft.

Title MV-22B Aircraft Familiarization Training Course

Description This course provided training to the MV-22B maintenance technician, including:

- Aircraft Systems and Safety Procedures
- Ground Safety
- Operating Procedures
- Publications

Upon completion, the graduate possessed the prerequisite knowledge to attend the MV-22B maintenance course for Initial Cadre for the MV-22B Aircraft.

Location MTU 1035 NAMTRA MARUNIT Osprey
MCAS New River

Length 3 days

RFT date 11 - 13 October 2000 (completed)

TTE/TD MV-22B Aircraft

Prerequisite Assigned as Initial Cadre for the MV-22B Aircraft.

Title	MV-22B Airframes Organizational Maintenance Training Course (Initial Cadre)
Description	<p>This course provided training to the USMC Airframe Mechanic, including:</p> <ul style="list-style-type: none">◦ Aircraft Structures◦ Hydraulic Systems◦ Structural Repair◦ Flight Control Surfaces◦ Publications and Safety Procedures <p>Upon completion, the graduate was able to perform as Initial Cadre for MV-22B Airframes organizational maintenance in a squadron environment under supervision.</p>
Location	MTU 1035 NAMTRA MARUNIT Osprey MCAS New River
Length	69 days
RFT date	25 January - 1 April 2000 (completed)
TTE/TD	MV-22B Aircraft
Prerequisite	<ul style="list-style-type: none">◦ C-603-0175, Aviation Structural Mechanic (Hydraulics and Structures) Common Core Course, Class A1◦ C-600-3626, V-22 Aircraft Familiarization Course.
Title	MV-22B Airframes Organizational Maintenance Training Course (Instructor)
Description	<p>This course provided training to the USMC Airframe Mechanic, including:</p> <ul style="list-style-type: none">◦ Aircraft Structures◦ Hydraulic Systems◦ Structural Repair◦ Flight Control Surfaces◦ Publications and Safety Procedures <p>Upon completion, the graduate was able to perform as an MV-22B Airframes Instructor for organizational maintenance in a schoolhouse environment.</p>
Location	MTU 1035 NAMTRA MARUNIT Osprey MCAS New River
Length	31 days
RFT date	25 January - 25 February 2000 (completed)
TTE/TD	MV-22B Aircraft

Prerequisite Assigned as an Airframes Instructor for the MV-22B Aircraft

Title MV-22B Avionics/Electrical Organizational Maintenance Training Course (Initial Cadre)

Description This course provided training to the USMC Avionics and Electrical Technician, including:

- ° Communication Systems
- ° Navigation Systems
- ° Forward Looking Infrared System (FLIR)
- ° Electronic Warfare System
- ° Electrical Systems
- ° Flight Control Systems
- ° Cockpit Management System
- ° Wire and Connector Repair
- ° Equipment Locations
- ° Publications and Safety Procedures

Upon completion, the graduate was able to perform as Initial Cadre for MV-22B Avionics/Electrical Systems organizational maintenance in a squadron environment under supervision.

Location MTU 1035 NAMTRA MARUNIT Osprey
MCAS New River

Length 27 days

RFT dates ° February 18 - April 16 1999 (completed)
° 23 October - 19 November 2000 (completed)
° 12 December 2000 - 8 January 2001 (completed)
° 16 January - 12 February 2001 (completed)

TTE/TD MV-22B Aircraft

Prerequisite ° C-100-2020, Avionics Common Core Class A1
° C-602-2039, Aviation Electrician's Mate Strand Class A1
° C-600-3626, V-22 Aircraft Familiarization

Title **MV-22B Avionics/Electrical Organizational Maintenance Training Course (Instructor)**

Description This course provided training to the USMC Avionics and Electrical Technician, including:

- Communication Systems
- Navigation Systems
- FLIR
- Electronic Countermeasures
- Electrical Systems
- Test and Support Equipment
- Equipment Locations
- Publications and Safety Procedures

Upon completion, the graduate was able to perform as an MV-22B Avionics/Electrical Instructor for organizational maintenance in a schoolhouse environment.

Location MTU 1035 NAMTRA MARUNIT Osprey
MCAS New River

Length 55 days

RFT date 1 June - 4 August 1999 (completed)

TTE/TD MV-22B Aircraft

Prerequisite Assigned as an Avionics/Electrical Instructor for the MV-22B Aircraft

Title **MV-22B Power Plant and Related Organizational Maintenance Course (Initial Cadre)**

Description This course provided training to the Power Plants Technician (USMC Helicopter Mechanic and USMC Crew Chief), including:

- ° Troubleshooting Beyond BIT
- ° Use of Electrical Test Equipment
- ° Secondary Power System
- ° Internal Fuel System
- ° External Fuel System
- ° Basic Mechanic Course
- ° Corrosion Control
- ° Environmental Control Systems
- ° Publications and Safety Procedures

Upon completion, the graduate was able to perform as Supervisor of MV-22B Power Plants organizational maintenance in a squadron environment.

Location MTU 1035 NAMTRA MARUNIT Osprey
MCAS New River

Length 60 days

RFT dates ° 10 March - 9 May 1999 (completed)
° 16 October - 15 December 2000 (completed)

TTE/TD MV-22B Aircraft

Prerequisite For Basic Mechanic:
° C-600-3626, V-22 Familiarization Course

For Power Plants and Related (PP&R) and Environmental Control System (ECS):
° C-600-3626, V-22 Familiarization Course
° C-601-3627, V-22 Basic Mechanic (Initial) Course

Title **MV-22B Power Plant and Related Course (Instructor)**

Description This course provided training to the Power Plants Mechanic (USMC Helicopter Mechanic and USMC Crew Chief), including:

- ° Troubleshooting Beyond BIT
- ° Use of Electrical Test Equipment
- ° Secondary Power System
- ° Internal Fuel System
- ° External Fuel System
- ° Publications and Safety Procedures

Upon completion, the graduate was able to perform as a MV-22B Power Plants Instructor for organizational maintenance in a schoolhouse environment.

Location MTU 1035 NAMTRA MARUNIT Osprey
MCAS New River

Length 31 days

RFT date 10 May - 10 June 1999 (completed)

TTE/TD MV-22B Aircraft

Prerequisite Assigned as a Power Plants Instructor for the MV-22B Aircraft.

e. Follow-on Training. USMC Pilot and Aircrew follow-on training will be conducted by VMMT-204. All follow-on training for Pilots and enlisted Aircrew will be conducted per appropriate Service directives. For planning purposes, the USMC will use a six-month training duration for Pilots and enlisted Aircrew, and it will be re-evaluated once USMC students have gone through training. As further information becomes available, it will be included in this JTSP. Follow-on flight training is based on a core MV-22 curriculum that was followed by Service-unique training (i.e., CSAR, Medical Evacuation, troop lift, and assault support). CV-22 SOF-unique Aircrew training will be conducted at the 58th Special Operations Wing (SOW), Kirtland AFB, New Mexico, as set forth in the AFSOC CV-22 STP. V-22 Pilot and Aircrew follow-on training will begin in FY05. NAMTRA MARUNIT Osprey began maintenance training for USAF and USMC personnel in October 2002.

(1) Pilot Training. Pilot training is designed to provide aviators with the ability, skills, and knowledge to safely and effectively operate the V-22 Aircraft at the Combat Capable Pilot level during day and night Visual Meteorological Conditions. Training consists of ground school instrument procedures training and flight training.

Title **V-22 Pilot Training**

CIN NA

Model Manager ... VMMT-204

Description This course provides training to the V-22 Pilot, including:

- ° V-22 Operation and Safety Procedures
- ° Pilot Ground School
- ° Pilot Ground School Basic
- ° Pilot Ground School Refresher
- ° Flight Training

Upon completion, the graduate will be able to safely and effectively perform as a combat capable Pilot in the V-22 Aircraft in a squadron environment.

Delivery Method.. Total Course of Instruction 500 hours
Instructor Led Classroom 250 hours / periods
IMI
Level 1 100 hours
Level 2 100 hours
Level 3 50 hours
Simulator 55 hours/periods
PJT (Flight Time) 39.5 flight hours

Location VMMT-204, MCAS New River

Length 180 days estimated

RFT date Currently on line for pre-Block "A". Will be on line for Block "A" in FY05.

Skill identifier MOS 7532

TTE/TD V-22 Aircraft

Prerequisite ° Existing Naval Aviators selected per Headquarters Marine Corps Transition Board
° Designated Service Group I Naval Aviator

(2) USMC Enlisted Aircrew Training. USMC Enlisted Aircrew training is conducted at VMMT-204 per the Training and Readiness Manual Marine Corps Order (MCO) 3500M.

Title **MV-22 Crew Chief**
CIN M-050-6176
Model Manager ... VMMT-204
Description This course provides training to the V-22 Crew Chief, including:
 ° V-22 Operation and Safety Procedures
 ° V-22 Crew Chief Ground School
 ° V-22 Crew Chief NATOPS
 ° V-22 Crew Chief Ground School Refresher
 ° V-22 Flight Training
 Upon completion, the graduate will be able to safely and effectively perform as a Crew Chief in the V-22 Aircraft in a squadron environment.
Delivery Method.. Total Course of Instruction 900 hours estimated
 Instructor Led Classroom 744 hours / periods
 IMI
 Level 1 250 hours
 Level 2 200 hours
 Level 3 150 hours
 Level 4 144 hours
 Simulator 6 hours / periods
 PJT (Flight Time) 32 flight hours
Location VMMT-204, MCAS New River
Length 109 days
RFT date Currently on line for pre-Block "A". Will be on line for Block "A" in FY05.
Skill identifier MOS 6176
TTE/TD V-22 Aircraft
Prerequisite M-601-6116, V-22 Power Plants and Related Systems Organizational Maintenance.

(3) USAF Flight Engineer Training. Air Force Flight Engineer training will be conducted at Kirtland AFB. The CV-22 lead-in course will also be conducted at Kirtland AFB. Further information is contained in the CV-22 STP.

(d) Maintenance Training. Maintenance training is currently being validated by MTU 1035, NAMTRA MARUNIT Osprey at MCAS New River to provide personnel with the skills and knowledge required to safely and effectively detect, diagnose, and perform appropriate organizational corrective maintenance for problems that could be encountered during operational flight tests. All USMC maintenance personnel attend both the core and strand courses of the respective "A" schools related to their assigned MOS. "A" school

graduates attend the V-22 “C” school courses for their respective MOS. The course lengths of the following organizational level maintenance courses currently being developed are notional:

USMC Maintenance Training

Title	V-22 Power Plants and Related Systems Organizational Maintenance
CIN	M-601-6116
Model Manager ...	MTU 1035
Description	<p>This course provides training to the USMC V-22 Power Plants Mechanic, including:</p> <ul style="list-style-type: none"> ° V-22 Power Plant Operations ° Removal and Replacement of All Major and Minor Components of the AE-1107C Liberty Engine ° Auxiliary Power Unit System ° Environmental Control System ° Corrosion Control of the Power Plants System ° Test and Support Equipment ° Publications and Safety Precautions <p>Upon completion, the graduate will be able to safely and effectively perform organizational maintenance on the V-22 Aircraft in a squadron environment under limited supervision.</p>
Delivery Method..	<p>Total Course of Instruction 377 hours</p> <p>Instructor Led Classroom 165 hours / periods</p> <p>IMI Level 1 (CAI)</p> <p>OJT 17 hours</p> <p>PJT 195 hours</p>
Location	MTU 1035 NAMTRA MARUNIT Osprey, MCAS New River
Length	75 days
RFT date	<p>° Currently available for pre-Block “A”</p> <p>° FY05 for Block “A”</p>
Skill identifier	MOS 6116
TTE/TD	VMTS
Prerequisites	<p>° C-601-2011, Aviation Machinist’s Mate Common Core Class A1</p> <p>° C-601-2012, Aviation Machinist’s Mate Helicopter Fundamentals Strand Class A1</p>

Title **MV-22 Avionics and Electrical Systems Organizational Maintenance**

CIN M-602-6326

Model Manager ... MTU 1035

Description This course provides training to the USMC V-22 Avionics and Electrical Technician, including:

- ° Cockpit Management Systems
- ° Removal and Replacement of All Major and Minor Avionics Components
- ° Electrical Systems
- ° Corrosion Control of Avionics and Electrical Systems
- ° Connector Repair
- ° Electronic Warfare System
- ° Forward Looking Infrared System
- ° Flight Control Systems
- ° Test and Support Equipment
- ° Publications and Safety Precautions

Upon completion, the graduate will be able to safely and effectively perform organizational maintenance on the V-22 Aircraft in a squadron environment under limited supervision.

Delivery Method.. Total Course of Instruction 786 hours
Instructor Led Classroom 324 hours / periods
IMI Level 1 (CAI)
OJT 74 hours
PJT 253 hours

Location MTU 1035 NAMTRA MARUNIT Osprey,
MCAS New River

Length 143 days

RFT date ° Currently available for pre-Block “A”
° FY05 for Block “A”

Skill identifier MOS 6326

TTE/TD VMTS

Prerequisites ° C-100-2020, Avionics Common Core Class A1
° C-602-2039, Aviation Electrician’s Mate O Level Strand Class A1

Title **MV-22 Airframes and Hydraulic Systems
Organizational Maintenance**

CIN M-603-6156

Model Manager ... MTU 1035

Description This course provides training to the USMC V-22 Airframe and Hydraulic Mechanic, including:

- ° V-22 Airframe and Hydraulic Operations
- ° Removal and Replacement of All Major and Minor Airframe and Hydraulic Components
- ° Composite Repair
- ° Corrosion Control of the Airframe and Hydraulic Systems
- ° Test and Support Equipment
- ° Publications and Safety Precautions

Upon completion, the graduate will be able to safely and effectively perform organizational maintenance on the V-22 Aircraft in a squadron environment under limited supervision.

Delivery Method.. Total Course of Instruction 222 hours
Instructor Led Classroom 108 hours / periods
IMI Level 1 (CAI)
OJT 149 hours
PJT 172 hours

Location MTU 1035 NAMTRA MARUNIT Osprey,
MCAS New River

Length 75 days

RFT date ° Currently available for pre-Block “A”
° FY05 for Block “A”

Skill identifier MOS 6156

TTE/TD VMTS

Prerequisites ° C-603-0176, Aviation Structural Mechanic (Structures and Hydraulics) Organizational Level Strand Class A1 (or equivalent USAF training)
° J3ABP2A635-001, Aircraft Pneudraulic System Apprentice

USAF Maintenance Training

Title **CV-22 Electro-Environmental Systems Organizational Maintenance**

CIN J3AZP2A656 000

Model Manager ... 360 TRS/OL-B

Description This course provides training to the USAF V-22 Mechanic, including:

- ° Electrical and Environmental Systems Operation
- ° Electrical and Environmental Systems Troubleshooting
- ° Electrical and Environmental Systems Maintenance and Repair

Upon completion, the graduate will be able to safely and effectively perform organizational maintenance on the CV-22 Aircraft in a squadron environment under limited supervision.

Location MTU 1035 NAMTRA MARUNIT Osprey, MCAS New River

Length 79 days

RFT date July 2005

Skill identifier AFSC 2A6X6

TTE/TD VMTS

Prerequisite J3ABPR2A636-001, Electrical/Environmental Apprentice

Title **CV-22 Integrated Avionics Systems Organizational Maintenance**

CIN J3AZP2A352 000

Model Manager ... 360 TRS/OL-B

Description This course provides training to the USAF V-22 Avionics Technician, including:

- Communication, Navigation, Identification (CNI), Radar, and Countermeasures Systems Operation
- Communication, Navigation, Identification (CNI), Radar, and Countermeasures Systems Troubleshooting
- Communication, Navigation, Identification (CNI), Radar, and Countermeasures Systems Maintenance and Repair

Upon completion, the graduate will be able to safely and effectively perform organizational maintenance on the CV-22 Aircraft in a squadron environment under limited supervision.

Location MTU 1035 NAMTRA MARUNIT Osprey, MCAS New River

Length 111 days

RFT date July 2005

Skill identifier AFSC 2A3X2

TTE/TD VMTS

Prerequisites

- J3AQR2A332-500, Electronics Principles
- J3ABR2A332-002, Avionics Instrument and Flight Control Apprentice
- Secret Clearance

Title	CV-22 Propulsion Systems Organizational Maintenance
CIN	J3AZP2A651B 000
Model Manager ...	360 TRS/OL-B
Description	<p>This course provides training to the USAF V-22 Propulsion Systems Mechanic, including:</p> <ul style="list-style-type: none">° Propulsion Systems Operation° Propulsion Systems Troubleshooting° Propulsion Systems Maintenance and Repair <p>Upon completion, the graduate will be able to safely and effectively perform organizational maintenance on the CV-22 Aircraft in a squadron environment under limited supervision.</p>
Location	MTU 1035 NAMTRA MARUNIT Osprey, MCAS New River
Length	34 days
RFT date	July 2005
Skill identifier	AFSC 2A6X1
TTE/TD	VMTS
Prerequisite	J3ABPR2A631B-001, Turboprop/Turboshaft Propulsion

Title	CV-22 Hydraulic Systems Organizational Maintenance
CIN	J3AZP2A655 000
Model Manager ...	360 TRS/OL-B
Description	<p>This course provides training to the USAF V-22 Hydraulic Systems Mechanic, including:</p> <ul style="list-style-type: none">° Hydraulic Systems Operation° Hydraulic Systems Troubleshooting° Hydraulic Systems Maintenance and Repair <p>Upon completion, the graduate will be able to safely and effectively perform organizational maintenance on the CV-22 Aircraft in a squadron environment under limited supervision.</p>
Location	MTU 1035 NAMTRA MARUNIT Osprey, MCAS New River
Length	66 days
RFT date	July 2005

Skill identifier AFSC 2A6X5
TTE/TD VMTS
Prerequisite J3ABPR2A635-001, Aircraft Pneudraulic Systems
Apprentice

Title CV-22 Crew Chief Organizational Maintenance
CIN J3AZP2A552 000, J3ABP2A532D 000
Model Manager ... 360 TRS/OL-B
Description This course provides training to the USAF V-22 Crew
Chief in all aspects of CV-22 organizational maintenance.
Upon completion, the graduate will be able to safely and
effectively perform as a Crew Chief on the CV-22 Aircraft
in a squadron environment.
Location MTU 1035 NAMTRA MARUNIT Osprey,
MCAS New River
Length 137 days
RFT date July 2005
Skill identifier AFSC 2A5X2
TTE/TD VMTS
Prerequisites ° J3AQP2A532-000, Helicopter Maintenance
Fundamentals
° J3ABP2A532D-000, CV-22 Maintenance Apprentice

Note: Intermediate level training courses have not been created at this time. Currently, vendors are maintaining their systems until V-22 systems demonstrate the level of reliability required for complete organic support. Information on intermediate level training will be incorporated into future updates to this JTSP.

e. Student Profiles. MV-22 and CV-22 student profiles are as shown:

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 7532	<ul style="list-style-type: none"> ◦ Existing Naval Aviators selected per Headquarters Marine Corps Transition Board ◦ Designated Service Group I Naval Aviator
AFSC 11SYX	<ul style="list-style-type: none"> ◦ Existing Naval Aviators selected per Headquarters USAF Transition Board ◦ Designated Service Group I Naval Aviator
MOS 6116	<ul style="list-style-type: none"> ◦ C-601-2011, Aviation Machinist's Mate Common Core Class A1 ◦ C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1
MOS 6176	<ul style="list-style-type: none"> ◦ M-601-6116, V-22 Power Plants and Related Systems Organizational Maintenance
MOS 6326	<ul style="list-style-type: none"> ◦ C-100-2020, Avionics Common Core Class A1 ◦ C-100-2017, Avionics Technician I Level Class A1 ◦ C-602-2039, Aviation Electrician's Mate O Level Strand Class A1
MOS 6156	<ul style="list-style-type: none"> ◦ C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Common Core Class A1 ◦ C-603-0176, Aviation Structural Mechanic (Structures and Hydraulics) Organizational Level Strand Class A1
AFSC 1A1X1B	<ul style="list-style-type: none"> ◦ Existing Naval Aircrewmembers selected per Headquarters USAF Transition Board
AFSC 2A3X2	<ul style="list-style-type: none"> ◦ J3AQR2A332-500, Electronic Principles ◦ J3ABR2A332 000, Integrated Avionics Apprentice Course
AFSC 2A5X2	<ul style="list-style-type: none"> ◦ J3AQP2A532-000, Helicopter Maintenance Fundamentals
AFSC 2A6X1/ 2A6X1B	<ul style="list-style-type: none"> ◦ J3ABPR2A631B-001, Turboprop/Turboshaft Propulsion
AFSC 2A6X5	<ul style="list-style-type: none"> ◦ J3ABPR2A635-001, Aircraft Pneudraulic Systems Apprentice
AFSC 2A6X6	<ul style="list-style-type: none"> ◦ J3ABPR2A636-001, Electrical/Environmental Apprentice

f. Training Pipelines. The proposed Marine Corps training tracks to support V-22 referenced in Part III of this JTSP are being added to the Catalog of Navy Training Courses (CANTRAC) and the OPNAV Aviation Training Management System (OATMS). The Air Force enlisted maintenance training pipelines were taken from the CV-22 STP and the Air Force Catalog (AFCAT) 36-2223. Air Force attended courses will be enumerated in CANTRAC, OATMS, and the Air Force Training Management Systems (AFTMS). The following is a list of proposed training tracks and the courses:

TRACK NUMBER AND TITLE	COURSE NUMBER AND TITLE
M-601-6116 V-22 Power Plants and Related Systems Organizational Maintenance	<ul style="list-style-type: none">◦ Indoctrination◦ Corrosion Control◦ C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course◦ C-601-3627, V-22 Basic Mechanic's (Initial) Organizational Maintenance Course◦ C-601-3628, V-22 Environmental Control Systems (Initial) Organizational Maintenance Course◦ C-601-3626, V-22 Power Plants and Related Systems (Initial) Organizational Maintenance Course◦ Q-2A-0036, Enlisted Aircrew Course
M-603-6156 V-22 Airframes and Hydraulic Systems Organizational Maintenance	<ul style="list-style-type: none">◦ Indoctrination◦ C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course◦ C-603-3626, V-22 Hydraulic Systems (Initial) Organizational Maintenance Course◦ C-603-3627, V-22 Airframes (Initial) Organizational Maintenance Course

TRACK NUMBER AND TITLE	COURSE NUMBER AND TITLE
<p>M-602-6326</p> <p>V-22 Avionics and Electrical Systems Organizational Maintenance</p>	<ul style="list-style-type: none"> ◦ Indoctrination ◦ C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course ◦ C-198-3626, V-22 Cockpit Management Systems (Initial) Organizational Maintenance Course ◦ C-102-3627, V-22 Avionics Systems (Initial) Organizational Maintenance Course ◦ C-102-3626, V-22 Electrical Systems (Initial) Organizational Maintenance Course ◦ C-602-3626, V-22 Connector Repair (Initial) Organizational Maintenance Course ◦ C-102-3630, V-22 Electronic Warfare System (Initial) Organizational Maintenance Course ◦ C-102-3629, V-22 Forward Looking Infrared (Initial) Organizational Maintenance Course ◦ C-198-3628, V-22 Flight Control Systems (Initial) Organizational Maintenance Course
<p>J3AZP2A656 000</p> <p>CV-22 Electro-Environmental Systems Organizational Maintenance Course</p>	<ul style="list-style-type: none"> ◦ Indoctrination ◦ CV-22 Aircraft Familiarization (Initial) Organizational Maintenance Course ◦ CV-22 Electrical Systems (Initial) Organizational Maintenance Course ◦ CV-22 Hydraulic Systems (Initial) Organizational Maintenance Course ◦ CV-22 Environmental Control/Miscellaneous Utilities/Egress Systems Organizational Maintenance Course ◦ CV-22 Connector Repair (Initial) Organizational Maintenance Course
<p>J3AZP2A352 000</p> <p>CV-22 Integrated Avionics Systems Organizational Maintenance</p>	<ul style="list-style-type: none"> ◦ Indoctrination ◦ CV-22 Aircraft Familiarization (Initial) Organizational Maintenance Course ◦ CV-22 Cockpit Management Display Systems ◦ CV-22 Flight Control Systems (Initial) Organizational Maintenance Course ◦ CV-22 Avionics Systems (Initial) Organizational Maintenance Course ◦ CV-22 Forward Looking Infrared (Initial) Organizational Maintenance Course ◦ CV-22 Electronic Warfare System (Initial) Organizational Maintenance Course ◦ CV-22 Radar System (Initial) Organizational Maintenance Course ◦ CV-22 Electrical Systems (Initial) Organizational Maintenance Course ◦ CV-22 Connector Repair (Initial) Organizational Maintenance Course

TRACK NUMBER AND TITLE	COURSE NUMBER AND TITLE
J3AZP2A651B 000 CV-22 Propulsion Systems Organizational Maintenance Course	<ul style="list-style-type: none"> ◦ Indoctrination ◦ CV-22 Aircraft Familiarization (Initial) Organizational Maintenance Course ◦ CV-22 Electrical Systems (Initial) Organizational Maintenance Course ◦ CV-22 Hydraulic Systems (Initial) Organizational Maintenance Course ◦ CV-22 Power Plants and Related Systems (Initial) Organizational Maintenance Course
J3AZP2A655 000 CV-22 Hydraulic Systems Organizational Maintenance Course	<ul style="list-style-type: none"> ◦ Indoctrination ◦ CV-22 Aircraft Familiarization (Initial) Organizational Maintenance Course ◦ CV-22 Electrical Systems (Initial) Organizational Maintenance Course ◦ CV-22 Hydraulic Systems (Initial) Organizational Maintenance Course ◦ CV-22 Power Plants and Related Systems (Initial) Organizational Maintenance Course ◦ CV-22 Cockpit Management Display Systems
J3AZP2A552 000, J3ABP2A532D 000 CV-22 Crew Chief Organizational Maintenance Course	<ul style="list-style-type: none"> ◦ Indoctrination ◦ CV-22 Aircraft Familiarization (Initial) Organizational Maintenance Course ◦ CV-22 Hydraulic Systems (Initial) Organizational Maintenance Course ◦ CV-22 Power Plants and Related Systems (Initial) Organizational Maintenance Course ◦ CV-22 Electrical Systems (Initial) Organizational Maintenance Course ◦ CV-22 Cockpit Management Display Systems ◦ CV-22 Environmental Control/Miscellaneous Utilities/Egress Systems Organizational Maintenance Course ◦ CV-22 Airframes (Initial) Organizational Maintenance Course ◦ CV-22 Crew Chief Course

Note: These AFSCs are approved and are included in the Air Force CV-22 STP.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development. Onboard proficiency training will be conducted to improve and enhance the capabilities of all V-22 Program individuals. For USMC personnel, the Individual Training Standards System (ITSS), Marine Aviation Training Management and Evaluation Program (MATMEP), will be used to establish an effective and efficient training system that is responsive to USMC Fleet training requirements. USAF onboard (continuation) training is addressed in the USAF CV-22 STP.

a. Maintenance Training Improvement Program. NA

b. Aviation Maintenance Training Continuum System. Aviation Maintenance Training Continuum System (AMTCS) redesigned the aviation training process (training continuum), and introduced IMI throughout the Navy technical training process. The application and adoption of recent advances in computer hardware and software technology will enable IMI, with its basic elements of CAI, and ICW, to be integrated into the training continuum and provide essential support for standardizing technical training. The MV-22 will use AMTCS when the MV-22 comes on line.

2. Personnel Qualification Standards. NA

3. Other Onboard or In-Service Training Packages. Marine Corps onboard training is based on the current series of MCO P4790.20, ITSS, and MATMEP. This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 series maintenance training requirements. It is a performance-based, standardized, level-progressive, documentable, training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies the task, skill, and knowledge requirements of each MOS.

J. LOGISTICS SUPPORT**1. Manufacturer and Contract Numbers**

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N00019-96-C-0188 (OFT)	L3 Communications Link Simulation and Training	P. O. Box 6171 Arlington, TX 76005
N00019-93-C-0006 (EMD) N00019-96-C-0054 (LRIP) N00019-99-C-1090 (Lot 4) N00019-00-C-0183 (Lot 5)	Bell-Boeing V-22 Joint Program Office	Building 3193 22398 James Road Patuxent River, MD 20670

2. Program Documentation

DOCUMENT TITLE	DOCUMENT NUMBER	PDA CODE	STATUS
V-22 Integrated Support Plan Revision F	NA	AIR 3.1	Approved 4 Jun 98
V-22 Joint Acquisition Logistics Support Plan (JALSP), Revision 4	NA	AIR 3.1	Proposed 25 Sep 00
USAF CV-22 STP	NA	AFSOC	15 Mar 01
MV-22 Security Classification Guide	NA	AIR 4.1.3	Approved 16 Jun 98
JORD, Change 4	NA	AFSOC/ AIR 3.1	Approved 16 Mar 02
V-22 Detail Specification	SD-572-1 Rev. C SD-572-1-1, Lot 1-3 SD-572-1-2 Lot 4 SD-572-1-3 Block Upgrade	Bell-Boeing	13 Sep 95 24 Jan 97 10 Nov 99 TBD
V-22 Manpower Estimate Report	NA	PMA275	Proposed 22 Sep 00
Inter-service Training Review Organizational Instruction	ITRO	CNET / N222	Approved Aug 98
MV-22B Training and Readiness Manual	MCO P3500.16B Volume 8 Chapter 1, 2	MCCDC / C461A	Approved 9 Nov 99
V-22 Weapon System Planning Document (WSPD)	NAVAIRNOTE 13100	AIR 1.3.2G	Approved 21 Jun 99
Memorandum Of Agreement for V-22 Aircrew and Maintenance Training at MCAS New River	NA	PMA275	11 Jun 98
MV/CV-22 Training and Training Equipment Plan	Report # 901-999-011 Revision-K	Bell-Boeing Training	15 Apr 00
Depot Training Program	N88-NTSP-A-XX- XXXX/D	PMA205	Draft 15 Apr 01

DOCUMENT TITLE	DOCUMENT NUMBER	PDA CODE	STATUS
V-22 Joint Services Advanced Lift Aircraft (Osprey) Human System Integration Plan	NA	AIR 4.1.2	30 Nov 95 Being Updated

3. Technical Data Plan. The following V-22 series technical manuals are required to support the V-22 acquisition effort:

- Service-Unique Flight Manuals (NATOPS USN / USMC, Flight Manual USAF)
- Interactive Electronic Technical Manuals (IETM)
- Maintenance Instruction Manuals (MIM)
- Structural Repair Publications
- Illustrated Parts Breakdown (IPB)
- MRC

These publications are being developed in progressive stages that reflect aircraft configuration changes. All three Services are included in the progressive stages of publication development.

4. Test Sets, Tools, and Test Equipment. An analysis is being conducted on each system to establish scheduled and unscheduled maintenance requirements for all levels of maintenance. From the identification of these maintenance requirements, the support equipment, special tools, and test equipment are being identified and included as a requirement on the Support Equipment Recommendation Data List for procurement. The AN/USM-636(V) Reconfigurable Transportable Consolidated Automated Support System (RTCASS) will be used to support the V-22 systems. The specific systems to be supported on Consolidated Automated Support System (CASS) have not been determined. When this information becomes available, it will be included in updates to this JTSP. The RTCASS is a separate and distinct subsystem of CASS and will initially support the MV-22 and CV-22. The RTCASS uses Commercial Off-The-Shelf (COTS) hardware and software. RTCASS consists of nine cases (vice racks) that are arranged in a three-wide by three-high matrix. Each case is ruggedized to allow for transportability.

5. Repair Parts. A technical data bank has been established in the V-22 Program for the USMC, USN, and USAF. The range and depth of data is expanding as the pre-operational support program progresses and transitions to the operational program. The data is used to develop detailed spares and repair parts requirements. The contractor is initially maintaining this data. As the V-22 Program matures, this data bank transitions to the appropriate Inventory Control Point. The GSD is FY09.

6. Human Systems Integration. The Human Systems Integration (HSI) Plan is dated 30 November 1995, and is being updated. The Human Factors Engineering Program ensured the requirements for operator and maintenance personnel were integrated into the system design, and that the V-22 permits maximum effectiveness of the man-machine interface. The HSI Plan is

designed to ensure human considerations are fully accounted for in the weapon system development. Percentiles are no longer used as a determinant for Aircrew personnel. Case studies one through five are used as the profiles for design. These cases are contained in the aircraft EMD specifications. Maintenance personnel (both male and female), for the V-22 Osprey must be capable of working between the fifth and ninety-fifth percentile per Military Standard 1472 database.

The V-22 HSI Plan documents a scheduled program of tests, studies, and analyses that focus on the human considerations that are to be employed throughout the life of the V-22 Aircraft program. These analyses and tests, which were addressed during EMD, included manpower, personnel, and training studies; system safety, health, and environmental hazard assessments; and reliability, maintainability, supportability, suitability, and effectiveness testing. The HSI Plan serves to improve total system performance and reduce development costs focusing on the capabilities and limitations of the Sailor, Airman, and Marine.

7. Engineering and Technical Services and/or Advisory Services. The type and number of ETS personnel required is keyed to aircraft deliveries for each Service, maintenance concepts, system complexity, maintenance task times, and frequency and difficulty of repair. ETS personnel received formal training and On-the-Job Training (OJT) in theories of operation, troubleshooting, maintenance, and repair of their respective systems. Training and update seminars will be conducted for ETS personnel throughout the program's life cycle. ETS personnel use V-22 Aircraft maintenance concepts that are consistent with OPNAVINST 4790.2 (series) and AFSOCI 21-106. ETS personnel are being used to provide assistance to receiving activities, depots, and training sites. ETS personnel provide informal training to maintenance personnel, and support operator training and briefings as required. They can provide formal instruction, OJT, and support aircraft repair at all levels of maintenance, as required.

K. SCHEDULES

1. Installation and Delivery Schedules. An estimated final procurement of 360 aircraft for the Marine Corps is proposed, allowing for a one-percent attrition rate. Tables I-6 and I-7 show aircraft delivery schedules, fulfilling the total operating aircraft requirements of 345 aircraft in FY14.

TABLE I-6 AIRCRAFT DELIVERY SCHEDULE THROUGH FY14									
FISCAL YEAR	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
MV-22 Procurement	5	7	7	11	16	18	22	24	25
MV-22 Delivery (Cumulative)			2	9	18	29	45	63	85
Cumulative Deliveries (Minus Attrition)				7.9	16.7	27.4	43.0	60.4	81.5

TABLE I-6 AIRCRAFT DELIVERY SCHEDULE THROUGH FY14									
FISCAL YEAR	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
* Peacetime Attrition 1%			0	0.1	0.2	0.3	0.5	0.6	0.9
Cumulative Remaining Aircraft			0	8	17	27	43	60	82

TABLE I-6 AIRCRAFT DELIVERY SCHEDULE THROUGH FY14 (CONTINUED)									
FISCAL YEAR	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14
MV-22 Procurement	29	32	30	30	30	30	30	30	30
MV-22 Delivery (cumulative)	109	134	163	195	225	255	285	315	345
Cumulative Deliveries (Minus Attrition)	104.4	128.1	155.4	185.5	213.2	240.7	267.8	294.7	321.2
* Peacetime Attrition	1.1	1.3	1.6	2.0	2.3	2.6	2.9	3.2	3.5
Cumulative Remaining Aircraft	104	128	155	186	213	241	268	295	321

* The attrition shown is per year for a total of 24 through FY14.

TABLE I-7 AIRCRAFT DELIVERY SCHEDULE PER SQUADRON THROUGH FY14									
ACTIVITY	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
Cumulative Operating				8	17	27	43	60	82
VMMT-204 Marine Aircraft Group (MAG)-26				8	12	12	12	12	14
Medium Tilt-Rotor Squadron (VMM)-264					5	9	12	12	12
VMM-162						6	12	12	12

TABLE I-7 AIRCRAFT DELIVERY SCHEDULE PER SQUADRON THROUGH FY14									
ACTIVITY	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
VMM-266							7	12	12
VMM-261								12	12
VMM West #1									12
VMM West #2									6
HMX-1 (MV-8/W-11)									2

TABLE I-7 AIRCRAFT DELIVERY SCHEDULE PER SQUADRON THROUGH FY14 (CONTINUED)									
ACTIVITY	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14
Cumulative Operating	104	128	155	186	213	241	268	295	321
VMMT-204 MAG-26	16	17	19	19	19	19	19	19	38
VMM-264	12	12	12	12	12	12	12	12	12
VMM-162	12	12	12	12	12	12	12	12	12
VMM-266	12	12	12	12	12	12	12	12	12
VMM-261	12	12	12	12	12	12	12	12	12
VMM West #1	12	12	12	12	12	12	12	12	12
VMM West #2	12	12	12	12	12	12	12	12	12
VMM West #3	9	12	12	12	12	12	12	12	12
VMM West #4	3	12	12	12	12	12	12	12	12
HMX-1 (MV-8/W-11)	4	6	8	11	14	16	19	19	19
VMM-362		9	12	12	12	12	12	12	12
VMM-363			11	12	12	12	12	12	12

**TABLE I-7 AIRCRAFT DELIVERY SCHEDULE
PER SQUADRON THROUGH FY14 (CONTINUED)**

ACTIVITY	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14
VMM-463			9	12	12	12	12	12	12
VMM-262				12	12	12	12	12	12
VMM-265				12	12	12	12	12	12
VMM West #5					10	12	12	12	12
VMM West #6					8	12	12	12	12
VMM-164 (46 FRS)					6	12	12	12	12
VMM #5						8	12	12	12
VMM #6						6	12	12	12
VMM #1 Reserves							6	10	12
VMM #2 Reserves							8	10	12
VMM #3 Reserves								10	12
VMM #4 Reserves								11	12

2. Ready For Operational Use Schedule. The Marine Corps Initial Operational Capability (IOC) (12 MV-22 fielded) is scheduled for FY05. The Air Force IOC (12 combat coded CV-22s fielded) is scheduled for FY06. The Navy IOC is yet to be determined.

3. Time Required to Install at Operational Sites. NA

4. Foreign Military Sales and Other Source Delivery Schedule. Currently, there are no FMS programs established. FMS will be addressed as required and incorporated into future updates to this JTSP.

5. Training Device and Technical Training Equipment Delivery Schedule. Training Device (TD) and Technical Training Equipment (TTE) requirements and their logistics support requirements were developed per MIL-STD-490. Operator and maintenance TDs and TTE will be required. TDs were designed specifically to support the “core” training concept and will support any cadre training provided to the Air Force, Marine Corps, and Navy service members. Service-peculiar TD requirements are procured based upon the basic core trainers. Marine Corps TD usage is planned for 16 hours per day, five days per week, 50 weeks per year. The TDs are capable of being used on an as-available basis for instructing maintenance personnel on the

techniques and safety aspects of engine and aircraft system operation. Table I-8 lists the projected location and number of TDs for the V-22 Program.

TABLE I-8. V-22 TRAINING DEVICES

AIRCRAFT	SITE	FFS	FTD	PROCURE DATE	RFT DATE
MV-22	New River	1		FY99	FY01
		1		FY00	FY02
		1		FY02	FY04
		1		FY05	FY07
	New River		1(#1)	FY99	FY01
	New River		1(#2)	FY05	FY07
	Miramar		1(#3)	FY05	FY07
	New River		1(#4)	FY05	FY07
	New River		1(#5)	FY06	FY08
	Kaneohe Bay		1(#6)	FY06	FY08
	Camp Pendleton		1(#7)	FY07	FY09
	Okinawa		1(#8)	FY08	FY10
	Okinawa		1(#9)	FY09	FY11
	Kaneohe Bay		1(#10)	FY09	FY10
	Kaneohe Bay		1(#11)	FY10	FY12
	Quantico		1(#12)	FY10	FY12
	4th MAW		1(#13)	FY11	FY13
	4th MAW		1(#14)	FY12	FY14
	4th MAW		1(#15)	FY12	FY14
CV-22	Kirkland	1	1	FY04	FY06
			1	FY05	FY07
				FY08	FY10
		1		FY06	FY08
	Hurlburt		1	FY05	FY07
	CONUS 2		1	FY09	FY11
	Europe Command (EUCOM)		1	FY08	FY10

AIRCRAFT	SITE	FFS	FTD	PROCURE DATE	RFT DATE
	Pacific Command (PACOM)		1	FY07	FY09
HV-22	East Coast	1	1	FY14	FY16
	West Coast	1	1	FY16	FY18
TOTALS		8	23		

a. Cockpit Procedures Trainer (2C71). The CPT will mirror the actual aircraft but will be mounted on a fixed base with no visual system. This device will effectively train and develop Pilot skills in cockpit management system proficiency, instrument flight, and emergency system malfunction procedures. The CPT simulates MV-22B Aircraft performance during cockpit preflight, aircraft start-up, navigational and instrument flight, aircraft shut-down, and cockpit postflight procedures. A CPT was delivered and was Ready For Training (RFT) at MCAS New River in June 1999.

b. Full Flight Simulator. The FFS is a flight simulator with a full six degree-of-freedom motion base and an attached full-color day, dusk, and night visual system. The FFS is designed to support the V-22B Training and Replacement syllabus and includes a tactical environment simulation and supports simulator-to-simulator networking. The FFS is designed to meet the initial training needs of V-22B Aircrews in the proper operation of the V-22B in all weather conditions, normal and emergency procedures, and NVG operations. The FFS will be the mainstay of operator training for the FRS. The FFSs will be procured in both MV-22 and CV-22 configurations. The V-22B training program will procure a total of six FFSs for use by Marine Corps and Air Force operational and training squadrons.

c. Flight Training Device. The FTD is similar to the FFS, but without the motion system, and is designed to meet proficiency training needs of V-22B Aircrews in instrument flight, emergency procedures, and tactics, and to provide recurrent training for Fleet squadrons. FTDs will be procured in both MV-22 and CV-22 configurations. The V-22B training program will procure a total of 20 FTDs for use by Marine Corps and Air Force operational and training squadrons.

d. V-22 Maintenance Trainer Suite. The V-22 Maintenance Trainer Suite (VMTS) consists of the: Landing Gear Part Task Trainer (LGPTT), Sponson Part Task Trainer (SPTT), the Mechanic Part Task Trainer (MPTT), the Airframe Part Task Trainer (AFPTT), the Power Plants Training Article (PPTA), and the Avionics Functional V-22 Trainer (AFVT) and the Aircraft Maintenance Trainer (AMT). These training devices have been delivered and the PPTA, AFVT, and AMT are currently being upgraded to a Block A configuration. Current plans are to acquire EMD flight test aircraft and develop them into additional AMTs. The Trainer Fault Insertion System (TFIS) and the CV-Expedient Maintenance Trainer (CV-EMT) are under development and are planned to be delivered in FY04.

e. Cabin Part Task Trainer. The Cabin Part Task Trainer (CPTT) is a replica of the interior cabin of the CV-22, including cargo-handling equipment. One Air Force-unique CPTT will be procured for the Flight Engineer/Loadmaster. This single CPTT will be delivered to Kirtland AFB.

L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Consolidated Automatic Support System (CASS) NTSP	A-50-8515C/D	PMA260	Draft Oct 00
AN/APX-100(V) Transponder Set	A-50-8305B/A	PMA209	Approved Apr 00
Advanced Composite Material Repair	A-50-8404D/D	AIR-4.3	Draft Jul 00
Cable Harness Repair or Manufacturing Equivalence Program	A-50-8512C/P	PMA260	Proposed May 00

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the V-22 Osprey and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities

II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities

Note: The print years for this Part II begin with Prior Fiscal Year (PFY) as FY04) and Current FY (CFY) as FY 05

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

SOURCE OF MANPOWER: Total Force Structure
SOURCE OF SCHEDULE: PMA205

DATE: July 2003
DATE: July 2003

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

ACTIVITY, UIC		PFYs	CFY05	FY06	FY07	FY08	FY09
OPERATIONAL ACTIVITIES - USMC							
Marine Medium Tilt Rotor Training Squadron	00001	1	0	0	0	0	0
MV-22 (12 Aircraft Squadron)	00001	0	0	1	2	2	2
VMX-22 Marine Tilt Rotor Op Test and Eval	02403	1	0	0	0	0	0
TOTAL:		2	0	1	2	2	2

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES - USMC					
Marine Medium Tilt Rotor Training Squadron (VMMT-204), 00001, PFY Increment					
USMC	1	0	0170		
	1	0	0402		
ACDU	1	0	2102		
USMC	3	0	6002		
	1	0	6004		
	2	0	6302		
	1	0	6604		
	24	0	7532		
	3	0	7562		
	1	0	7564		
	1	0	9907		
	0	2	CPL	0121	
	0	3	CPL	0151	
	0	1	CPL	0431	
	0	2	CPL	6048	
	0	1	CPL	6062	
	0	1	CPL	6092	
	0	13	CPL	6116	
	0	1	CPL	6132	
	0	5	CPL	6156	
	0	15	CPL	6176	
	0	5	CPL	6326	
	0	2	CPL	6413	
	0	2	CPL	6423	
	0	2	CPL	6433	
	0	1	CPL	6483	
	0	1	CPL	6492	
	0	3	CPL	6672	
	0	1	GYSGT	0193	
	0	1	GYSGT	6048	
	0	1	GYSGT	6112	
	0	2	GYSGT	6116	
	0	1	GYSGT	6156	
	0	2	GYSGT	6176	
	0	1	GYSGT	6226	
	0	1	GYSGT	6317	
	0	1	GYSGT	6326	
	0	1	GYSGT	7041	
	0	1	GYSGT	6469	
ACDU	0	1	HM1	8404	
	0	2	HM2	8406	
USMC	0	3	LCPL	0121	
	0	1	LCPL	0151	
	0	1	LCPL	2111	
	0	1	LCPL	5711	
	0	2	LCPL	6042	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	2	LCPL	6046	
	0	3	LCPL	6048	
	0	2	LCPL	6062	
	0	5	LCPL	6072	
	0	2	LCPL	6073	
	0	2	LCPL	6092	
	0	19	LCPL	6116	
	0	1	LCPL	6132	
	0	17	LCPL	6156	
	0	16	LCPL	6176	
	0	11	LCPL	6326	
	0	2	LCPL	6413	
	0	1	LCPL	6423	
	0	2	LCPL	6433	
	0	2	LCPL	6483	
	0	1	LCPL	6531	
	0	4	LCPL	6672	
	0	2	LCPL	7041	
	0	1	MGYSGT	6019	
	0	1	MGYSGT	9999	
	0	1	MSGT	6019	
	0	1	MSGT	6391	
	0	2	SGT	0121	
	0	2	SGT	0151	
	0	1	SGT	6046	
	0	1	SGT	6062	
	0	1	SGT	6092	
	0	7	SGT	6116	
	0	4	SGT	6156	
	0	14	SGT	6176	
	0	4	SGT	6326	
	0	1	SGT	6412	
	0	2	SGT	6413	
	0	1	SGT	6433	
	0	1	SGT	6483	
	0	1	SGT	6492	
	0	1	SGT	6531	
	0	1	SGT	6672	
	0	1	SGT	8711	
	0	3	SSGT	6012	
	0	3	SSGT	6046	
	0	4	SSGT	6116	
	0	3	SSGT	6156	
	0	4	SSGT	6176	
	0	1	SSGT	6326	
	0	2	SSGT	6531	
	0	1	SSGT	6672	
	0	1	SSGT	7041	
	0	1	SSGT	8421	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
ACTIVITY TOTAL:	41	249			
MV-22 (12 Aircraft Squadron), 00001, FY06 Increment					
USMC	1	0	0170		
ACDU	1	0	2102		
USMC	1	0	6002		
	1	0	6004		
	1	0	6302		
	28	0	7532		
	0	1	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	0431	
	0	1	CPL	6033	
	0	1	CPL	6046	
	0	1	CPL	6072	
	0	5	CPL	6116	
	0	6	CPL	6156	
	0	6	CPL	6176	
	0	5	CPL	6326	
	0	1	CPL	6413	
	0	4	CPL	6531	
	0	2	CPL	6541	
	0	2	CPL	6672	
	0	1	CPL	7041	
	0	1	GYSGT	0491	
	0	1	GYSGT	6046	
	0	1	GYSGT	6048	
	0	2	GYSGT	6116	
	0	1	GYSGT	6156	
	0	1	GYSGT	6176	
	0	1	GYSGT	6326	
	0	1	GYSGT	6531	
ACDU	0	1	HM1	8406	
	0	1	HM2	8401	
	0	1	HM2	8404	
USMC	0	2	LCPL	0121	
	0	1	LCPL	0151	
	0	1	LCPL	0231	
	0	1	LCPL	2111	
	0	1	LCPL	6042	
	0	2	LCPL	6046	
	0	4	LCPL	6048	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	1	LCPL	6062	
	0	1	LCPL	6072	
	0	9	LCPL	6116	
	0	1	LCPL	6132	
	0	2	LCPL	6152	
	0	16	LCPL	6156	
	0	6	LCPL	6176	
	0	7	LCPL	6326	
	0	1	LCPL	6423	
	0	1	LCPL	6433	
	0	2	LCPL	6492	
	0	2	LCPL	6531	
	0	3	LCPL	6672	
	0	1	LCPL	7041	
	0	1	MGYSGT	6019	
	0	1	MGYSGT	9999	
	0	1	MSGT	6019	
	0	1	MSGT	6391	
	0	1	SGT	0121	
	0	1	SGT	6012	
	0	1	SGT	6042	
	0	1	SGT	6048	
	0	2	SGT	6116	
	0	1	SGT	6132	
	0	3	SGT	6156	
	0	4	SGT	6176	
	0	2	SGT	6326	
	0	1	SGT	6422	
	0	1	SGT	6433	
	0	3	SGT	6531	
	0	1	SGT	6672	
	0	1	SGT	8421	
	0	1	SGT	8711	
	0	1	SSGT	0231	
	0	2	SSGT	6012	
	0	1	SSGT	6046	
	0	1	SSGT	6072	
	0	1	SSGT	6116	
	0	3	SSGT	6156	
	0	3	SSGT	6176	
	0	2	SSGT	6326	
	0	1	SSGT	7041	
ACTIVITY TOTAL:	33	165			
MV-22 (12 Aircraft Squadron), 00001, FY07 Increment					
USMC	2	0	0170		
ACDU	2	0	2102		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	2	0	6002		
	2	0	6004		
	2	0	6302		
	56	0	7532		
	0	2	CPL	0121	
	0	2	CPL	0151	
	0	2	CPL	0431	
	0	2	CPL	6033	
	0	6	CPL	6046	
	0	2	CPL	6072	
	0	10	CPL	6116	
	0	12	CPL	6156	
	0	12	CPL	6176	
	0	12	CPL	6326	
	0	2	CPL	6413	
	0	4	CPL	6467	
	0	2	CPL	6483	
	0	8	CPL	6531	
	0	4	CPL	6541	
	0	4	CPL	6672	
	0	2	CPL	7041	
	0	2	GYSGT	0491	
	0	2	GYSGT	6046	
	0	2	GYSGT	6048	
	0	4	GYSGT	6116	
	0	2	GYSGT	6156	
	0	2	GYSGT	6176	
	0	2	GYSGT	6326	
	0	2	GYSGT	6531	
ACDU	0	2	HM1	8406	
	0	2	HM2	8401	
	0	2	HM2	8404	
USMC	0	4	LCPL	0121	
	0	2	LCPL	0151	
	0	2	LCPL	0231	
	0	2	LCPL	2111	
	0	2	LCPL	6042	
	0	2	LCPL	6046	
	0	8	LCPL	6048	
	0	2	LCPL	6062	
	0	2	LCPL	6072	
	0	18	LCPL	6116	
	0	2	LCPL	6132	
	0	4	LCPL	6152	
	0	32	LCPL	6156	
	0	12	LCPL	6176	
	0	10	LCPL	6326	
	0	2	LCPL	6423	
	0	2	LCPL	6433	
	0	4	LCPL	6467	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
	0	4	LCPL	6492	
	0	4	LCPL	6531	
	0	6	LCPL	6672	
	0	2	LCPL	7041	
	0	2	MGYSGT	6019	
	0	2	MGYSGT	9999	
	0	2	MSGT	0193	
	0	2	MSGT	6019	
	0	2	MSGT	6391	
	0	2	SGT	0121	
	0	2	SGT	6012	
	0	2	SGT	6042	
	0	2	SGT	6048	
	0	4	SGT	6116	
	0	2	SGT	6132	
	0	6	SGT	6156	
	0	8	SGT	6176	
	0	4	SGT	6326	
	0	2	SGT	6422	
	0	2	SGT	6433	
	0	6	SGT	6531	
	0	2	SGT	6672	
	0	2	SGT	8421	
	0	2	SGT	8711	
	0	2	SSGT	0231	
	0	4	SSGT	6012	
	0	4	SSGT	6046	
	0	2	SSGT	6072	
	0	2	SSGT	6116	
	0	6	SSGT	6156	
	0	6	SSGT	6176	
	0	4	SSGT	6326	
	0	2	SSGT	7041	
ACTIVITY TOTAL:	66	330			
MV-22 (12 Aircraft Squadron), 00001, FY08 Increment					
USMC	2	0	0170		
ACDU	2	0	2102		
USMC	2	0	6002		
	2	0	6004		
	2	0	6302		
	56	0	7532		
	0	2	CPL	0121	
	0	2	CPL	0151	
	0	2	CPL	0431	
	0	2	CPL	6033	
	0	6	CPL	6046	
	0	2	CPL	6072	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
	0	10	CPL	6116	
	0	12	CPL	6156	
	0	12	CPL	6176	
	0	12	CPL	6326	
	0	2	CPL	6413	
	0	4	CPL	6467	
	0	2	CPL	6483	
	0	8	CPL	6531	
	0	4	CPL	6541	
	0	4	CPL	6672	
	0	2	CPL	7041	
	0	2	GYSGT	0491	
	0	2	GYSGT	6046	
	0	2	GYSGT	6048	
	0	4	GYSGT	6116	
	0	2	GYSGT	6156	
	0	2	GYSGT	6176	
	0	2	GYSGT	6326	
	0	2	GYSGT	6531	
ACDU	0	2	HM1	8406	
	0	2	HM2	8401	
	0	2	HM2	8404	
USMC	0	4	LCPL	0121	
	0	2	LCPL	0151	
	0	2	LCPL	0231	
	0	2	LCPL	2111	
	0	2	LCPL	6042	
	0	2	LCPL	6046	
	0	8	LCPL	6048	
	0	2	LCPL	6062	
	0	2	LCPL	6072	
	0	18	LCPL	6116	
	0	2	LCPL	6132	
	0	4	LCPL	6152	
	0	32	LCPL	6156	
	0	12	LCPL	6176	
	0	10	LCPL	6326	
	0	2	LCPL	6423	
	0	2	LCPL	6433	
	0	4	LCPL	6467	
	0	4	LCPL	6492	
	0	4	LCPL	6531	
	0	6	LCPL	6672	
	0	2	LCPL	7041	
	0	2	MGYSGT	6019	
	0	2	MGYSGT	9999	
	0	2	MSGT	0193	
	0	2	MSGT	6019	
	0	2	MSGT	6391	
	0	2	SGT	0121	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
	0	2	SGT	6012	
	0	2	SGT	6042	
	0	2	SGT	6048	
	0	4	SGT	6116	
	0	2	SGT	6132	
	0	6	SGT	6156	
	0	8	SGT	6176	
	0	4	SGT	6326	
	0	2	SGT	6422	
	0	2	SGT	6433	
	0	6	SGT	6531	
	0	2	SGT	6672	
	0	2	SGT	8421	
	0	2	SGT	8711	
	0	2	SSGT	0231	
	0	4	SSGT	6012	
	0	4	SSGT	6046	
	0	2	SSGT	6072	
	0	2	SSGT	6116	
	0	6	SSGT	6156	
	0	6	SSGT	6176	
	0	4	SSGT	6326	
	0	2	SSGT	7041	
ACTIVITY TOTAL:	66	330			
MV-22 (12 Aircraft Squadron), 00001, FY09 Increment					
USMC	2	0	0170		
ACDU	2	0	2102		
USMC	2	0	6002		
	2	0	6004		
	2	0	6302		
	56	0	7532		
	0	2	CPL	0121	
	0	2	CPL	0151	
	0	2	CPL	0431	
	0	2	CPL	6033	
	0	6	CPL	6046	
	0	2	CPL	6072	
	0	10	CPL	6116	
	0	12	CPL	6156	
	0	12	CPL	6176	
	0	12	CPL	6326	
	0	2	CPL	6413	
	0	4	CPL	6467	
	0	2	CPL	6483	
	0	8	CPL	6531	
	0	4	CPL	6541	
	0	4	CPL	6672	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
	0	2	CPL	7041	
	0	2	GYSGT	0491	
	0	2	GYSGT	6046	
	0	2	GYSGT	6048	
	0	4	GYSGT	6116	
	0	2	GYSGT	6156	
	0	2	GYSGT	6176	
	0	2	GYSGT	6326	
	0	2	GYSGT	6531	
ACDU	0	2	HM1	8406	
	0	2	HM2	8401	
	0	2	HM2	8404	
USMC	0	4	LCPL	0121	
	0	2	LCPL	0151	
	0	2	LCPL	0231	
	0	2	LCPL	2111	
	0	2	LCPL	6042	
	0	2	LCPL	6046	
	0	8	LCPL	6048	
	0	2	LCPL	6062	
	0	2	LCPL	6072	
	0	18	LCPL	6116	
	0	2	LCPL	6132	
	0	4	LCPL	6152	
	0	32	LCPL	6156	
	0	12	LCPL	6176	
	0	10	LCPL	6326	
	0	2	LCPL	6423	
	0	2	LCPL	6433	
	0	4	LCPL	6467	
	0	4	LCPL	6492	
	0	4	LCPL	6531	
	0	6	LCPL	6672	
	0	2	LCPL	7041	
	0	2	MGYSGT	6019	
	0	2	MGYSGT	9999	
	0	2	MSGT	0193	
	0	2	MSGT	6019	
	0	2	MSGT	6391	
	0	2	SGT	0121	
	0	2	SGT	6012	
	0	2	SGT	6042	
	0	2	SGT	6048	
	0	4	SGT	6116	
	0	2	SGT	6132	
	0	6	SGT	6156	
	0	8	SGT	6176	
	0	4	SGT	6326	
	0	2	SGT	6422	
	0	2	SGT	6433	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
	0	6	SGT	6531	
	0	2	SGT	6672	
	0	2	SGT	8421	
	0	2	SGT	8711	
	0	2	SSGT	0231	
	0	4	SSGT	6012	
	0	4	SSGT	6046	
	0	2	SSGT	6072	
	0	2	SSGT	6116	
	0	6	SSGT	6156	
	0	6	SSGT	6176	
	0	4	SSGT	6326	
	0	2	SSGT	7041	

ACTIVITY TOTAL: 66 330

VMX-22 Marine Tilt Rotor Operational Test and Evaluation Squadron, 02403, PFY Increment

ACDU	1	0	2102	
USMC	6	0	7532	
	2	0	7532	6002
	1	0	7532	7596
	2	0	7532	9650
	1	0	9907	
	1	0	CWO4	6004
	0	1	CPL	0121
	0	1	CPL	6046
	0	2	CPL	6048
	0	1	CPL	6062
	0	1	CPL	6092
	0	1	CPL	6116
	0	1	CPL	6132
	0	1	CPL	6156
	0	1	CPL	6176
	0	2	CPL	6326
	0	1	CPL	6413
	0	1	CPL	6423
	0	1	CPL	6433
	0	1	CPL	6467
	0	1	CPL	6483
	0	1	CPL	6492
	0	1	CPL	6531
	0	1	GYSGT	0193
	0	1	GYSGT	6116
	0	1	GYSGT	6326
ACDU	0	1	HM1	8406
	0	1	HM2	8406
USMC	0	1	LCPL	0121
	0	1	LCPL	0151
	0	1	LCPL	0231

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
	0	1	LCPL	0431	
	0	1	LCPL	6042	
	0	4	LCPL	6046	
	0	2	LCPL	6048	
	0	4	LCPL	6072	
	0	3	LCPL	6092	
	0	2	LCPL	6116	
	0	1	LCPL	6132	
	0	3	LCPL	6156	
	0	1	LCPL	6176	
	0	2	LCPL	6326	
	0	1	LCPL	6423	
	0	1	LCPL	6467	
	0	1	LCPL	6531	
	0	2	LCPL	7041	
	0	1	MGYSGT	9999	
	0	1	MSGT	6019	
	0	1	SGT	0151	
	0	1	SGT	0231	
	0	1	SGT	0431	
	0	1	SGT	6042	
	0	1	SGT	6046	
	0	1	SGT	6062	
	0	1	SGT	6092	
	0	3	SGT	6116	
	0	2	SGT	6156	
	0	1	SGT	6176	
	0	2	SGT	6326	
	0	1	SGT	6412	
	0	1	SGT	6414	
	0	1	SGT	6433	
	0	1	SGT	6483	
	0	1	SGT	6492	
	0	1	SGT	6531	
	0	1	SGT	9956	
	0	1	SSGT	6042	
	0	1	SSGT	6046	
	0	1	SSGT	6048	
	0	1	SSGT	6116	
	0	3	SSGT	6156	
	0	2	SSGT	6176	
	0	2	SSGT	6326	
	0	1	SSGT	7041	
ACTIVITY TOTAL:	14	92			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF ENL	CFY05 OFF ENL	FY06 OFF ENL	FY07 OFF ENL	FY08 OFF ENL	FY09 OFF ENL
USMC OPERATIONAL ACTIVITIES - USMC							
0170		1	0	1	2	2	2
0402		1	0	0	0	0	0
2102		2	0	1	2	2	2
6002		3	0	1	2	2	2
6004		1	0	1	2	2	2
6302		2	0	1	2	2	2
6604		1	0	0	0	0	0
7532		30	0	28	56	56	56
7532	6002	2	0	0	0	0	0
7532	7596	1	0	0	0	0	0
7532	9650	2	0	0	0	0	0
7562		5	0	0	0	0	0
7564		1	0	0	0	0	0
9907		2	0	0	0	0	0
CWO4	6004	1	0	0	0	0	0
CPL	0121	3	0	1	2	2	2
CPL	0151	3	0	1	2	2	2
CPL	0431	1	0	1	2	2	2
CPL	6033	0	0	1	2	2	2
CPL	6046	1	0	3	6	6	6
CPL	6048	4	0	0	0	0	0
CPL	6062	2	0	0	0	0	0
CPL	6072	0	0	1	2	2	2
CPL	6092	2	0	0	0	0	0
CPL	6116	14	0	5	10	10	10
CPL	6132	2	0	0	0	0	0
CPL	6156	6	0	6	12	12	12
CPL	6176	16	0	6	12	12	12
CPL	6326	7	0	6	12	12	12
CPL	6413	3	0	1	2	2	2
CPL	6423	3	0	0	0	0	0
CPL	6433	3	0	0	0	0	0
CPL	6467	1	0	2	4	4	4
CPL	6483	2	0	1	2	2	2
CPL	6492	2	0	0	0	0	0
CPL	6531	1	0	4	8	8	8
CPL	6541	0	0	2	4	4	4
CPL	6672	3	0	2	4	4	4
CPL	7041	0	0	1	2	2	2
GYSGT	0193	2	0	0	0	0	0
GYSGT	0491	0	0	1	2	2	2
GYSGT	6046	0	0	1	2	2	2
GYSGT	6048	1	0	1	2	2	2
GYSGT	6112	1	0	0	0	0	0
GYSGT	6116	3	0	2	4	4	4

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY05		FY06		FY07		FY08		FY09	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
GYSGT	6156		1		0		1		2		2		2
GYSGT	6176		2		0		1		2		2		2
GYSGT	6226		1		0		0		0		0		0
GYSGT	6317		1		0		0		0		0		0
GYSGT	6326		2		0		1		2		2		2
GYSGT	6531		0		0		1		2		2		2
GYSGT	7041		1		0		0		0		0		0
HM1	8404		1		0		0		0		0		0
HM1	8406		1		0		1		2		2		2
HM2	8401		0		0		1		2		2		2
HM2	8404		0		0		1		2		2		2
HM2	8406		3		0		0		0		0		0
LCPL	0121		4		0		2		4		4		4
LCPL	0151		2		0		1		2		2		2
LCPL	0231		1		0		1		2		2		2
LCPL	0431		1		0		0		0		0		0
LCPL	2111		1		0		1		2		2		2
LCPL	5711		1		0		0		0		0		0
LCPL	6042		3		0		1		2		2		2
LCPL	6046		6		0		1		2		2		2
LCPL	6048		5		0		4		8		8		8
LCPL	6062		2		0		1		2		2		2
LCPL	6072		9		0		1		2		2		2
LCPL	6073		2		0		0		0		0		0
LCPL	6092		5		0		0		0		0		0
LCPL	6116		21		0		9		18		18		18
LCPL	6132		2		0		1		2		2		2
LCPL	6152		0		0		2		4		4		4
LCPL	6156		20		0		16		32		32		32
LCPL	6176		17		0		6		12		12		12
LCPL	6326		13		0		5		10		10		10
LCPL	6413		2		0		0		0		0		0
LCPL	6423		2		0		1		2		2		2
LCPL	6433		2		0		1		2		2		2
LCPL	6467		1		0		2		4		4		4
LCPL	6483		2		0		0		0		0		0
LCPL	6492		0		0		2		4		4		4
LCPL	6531		2		0		2		4		4		4
LCPL	6672		4		0		3		6		6		6
LCPL	7041		4		0		1		2		2		2
MGYSGT	6019		1		0		1		2		2		2
MGYSGT	9999		2		0		1		2		2		2
MSGT	0193		0		0		1		2		2		2
MSGT	6019		3		0		1		2		2		2
MSGT	6391		1		0		1		2		2		2
SGT	0121		2		0		1		2		2		2
SGT	0151		3		0		0		0		0		0
SGT	0231		1		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY05		FY06		FY07		FY08		FY09	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
SGT	0431		1		0		0		0		0		0
SGT	6012		0		0		1		2		2		2
SGT	6042		1		0		1		2		2		2
SGT	6046		2		0		0		0		0		0
SGT	6048		0		0		1		2		2		2
SGT	6062		2		0		0		0		0		0
SGT	6092		2		0		0		0		0		0
SGT	6116		10		0		2		4		4		4
SGT	6132		0		0		1		2		2		2
SGT	6156		6		0		3		6		6		6
SGT	6176		15		0		4		8		8		8
SGT	6326		6		0		2		4		4		4
SGT	6412		2		0		0		0		0		0
SGT	6413		2		0		0		0		0		0
SGT	6414		1		0		0		0		0		0
SGT	6422		0		0		1		2		2		2
SGT	6433		2		0		1		2		2		2
SGT	6483		2		0		0		0		0		0
SGT	6492		2		0		0		0		0		0
SGT	6531		2		0		3		6		6		6
SGT	6672		1		0		1		2		2		2
SGT	8421		0		0		1		2		2		2
SGT	8711		1		0		1		2		2		2
SGT	9956		1		0		0		0		0		0
SSGT	0231		0		0		1		2		2		2
SSGT	6012		0		0		2		4		4		4
SSGT	6042		1		0		0		0		0		0
SSGT	6046		4		0		2		4		4		4
SSGT	6048		1		0		0		0		0		0
SSGT	6072		0		0		1		2		2		2
SSGT	6116		6		0		1		2		2		2
SSGT	6156		6		0		3		6		6		6
SSGT	6176		6		0		3		6		6		6
SSGT	6326		4		0		2		4		4		4
SSGT	6531		2		0		0		0		0		0
SSGT	6672		1		0		0		0		0		0
SSGT	7041		2		0		1		2		2		2
SSGT	8421		1		0		0		0		0		0

SUMMARY TOTALS:
USMC OPERATIONAL ACTIVITIES - USMC

53	336	0	0	32	162	64	324	64	324	64	324
2	5	0	0	1	3	2	6	2	6	2	6

GRAND TOTALS:
USMC - ACDU

2	5	0	0	1	3	2	6	2	6	2	6
53	336	0	0	32	162	64	324	64	324	64	324

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG	PNEC/SNEC	PFYs		CFY05		FY06		FY07		FY08		FY09	
RATING	PMOS/SMOS	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: MTU 1035 NAMTRA MARUNIT, MCAS New River, 52842

INSTRUCTOR BILLETS

USMC

CPL	6156	0	3	0	3	0	3	0	3	0	3	0	3
GYSGT	6116	0	2	0	2	0	2	0	2	0	2	0	2
GYSGT	6326	0	1	0	1	0	1	0	1	0	1	0	1
SGT	6116	0	11	0	11	0	11	0	11	0	11	0	11
SGT	6156	0	2	0	2	0	2	0	2	0	2	0	2
SGT	6326	0	6	0	6	0	6	0	6	0	6	0	6
SSGT	6116	0	9	0	9	0	9	0	9	0	9	0	9
SSGT	6156	0	2	0	2	0	2	0	2	0	2	0	2
SSGT	6326	0	6	0	6	0	6	0	6	0	6	0	6
TOTAL:		0	42	0	42	0	42	0	42	0	42	0	42

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY05		FY06		FY07		FY08		FY09	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTRA MARUNIT, MCAS New River, 52842	USMC	0.0	7.1	0.0	9.9	0.0	23.4	0.0	37.4	0.0	44.0	0.0	49.6
VMMT-204, MCAS New River, 52842	USMC	3.9	2.8	11.3	3.9	26.6	8.5	38.4	12.8	45.3	15.4	52.2	16.8
SUMMARY TOTALS:	USMC	3.9	9.9	11.3	13.8	26.6	31.9	38.4	50.2	45.3	59.4	52.2	66.4
GRAND TOTALS:		3.9	9.9	11.3	13.8	26.6	31.9	38.4	50.2	45.3	59.4	52.2	66.4

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY05 +/- CUM	FY06 +/- CUM	FY07 +/- CUM	FY08 +/- CUM	FY09 +/- CUM
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a. OFFICER - USN

Operational Billets ACDU and TAR

2102			2	0	2	1	3	2	5	2	7	2	9
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TOTAL USN OFFICER BILLETS:

Operational			2	0	2	1	3	2	5	2	7	2	9
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b. ENLISTED - USN

Operational Billets ACDU and TAR

HM1	8404		1	0	1	0	1	0	1	0	1	0	1
HM1	8406		1	0	1	1	2	2	4	2	6	2	8
HM2	8401		0	0	0	1	1	2	3	2	5	2	7
HM2	8404		0	0	0	1	1	2	3	2	5	2	7
HM2	8406		3	0	3	0	3	0	3	0	3	0	3

TOTAL USN ENLISTED BILLETS:

Operational			5	0	5	3	8	6	14	6	20	6	26
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c. OFFICER - USMC

Operational Billets USMC and AR

0170			1	0	1	1	2	2	4	2	6	2	8
0402			1	0	1	0	1	0	1	0	1	0	1
6002			3	0	3	1	4	2	6	2	8	2	10
6004			1	0	1	1	2	2	4	2	6	2	8
6302			2	0	2	1	3	2	5	2	7	2	9
6604			1	0	1	0	1	0	1	0	1	0	1
7532			30	0	30	28	58	56	114	56	170	56	226
7532	6002		2	0	2	0	2	0	2	0	2	0	2
7532	7596		1	0	1	0	1	0	1	0	1	0	1
7532	9650		2	0	2	0	2	0	2	0	2	0	2
7562			5	0	5	0	5	0	5	0	5	0	5
7564			1	0	1	0	1	0	1	0	1	0	1
9907			2	0	2	0	2	0	2	0	2	0	2
CWO4	6004		1	0	1	0	1	0	1	0	1	0	1

Chargeable Student Billets USMC and AR

4	8	12	15	27	12	39	7	46	7	53
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II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY05 +/- CUM	FY06 +/- CUM	FY07 +/- CUM	FY08 +/- CUM	FY09 +/- CUM
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TOTAL USMC OFFICER BILLETS:

Operational			53	0	53	32	85	64	149	64	213	64	277
Chargeable Student			4	8	12	15	27	12	39	7	46	7	53

d. ENLISTED - USMC
Operational Billets USMC and AR

CPL	0121	3	0	3	1	4	2	6	2	8	2	10
CPL	0151	3	0	3	1	4	2	6	2	8	2	10
CPL	0431	1	0	1	1	2	2	4	2	6	2	8
CPL	6033	0	0	0	1	1	2	3	2	5	2	7
CPL	6046	1	0	1	3	4	6	10	6	16	6	22
CPL	6048	4	0	4	0	4	0	4	0	4	0	4
CPL	6062	2	0	2	0	2	0	2	0	2	0	2
CPL	6072	0	0	0	1	1	2	3	2	5	2	7
CPL	6092	2	0	2	0	2	0	2	0	2	0	2
CPL	6116	14	0	14	5	19	10	29	10	39	10	49
CPL	6132	2	0	2	0	2	0	2	0	2	0	2
CPL	6156	6	0	6	6	12	12	24	12	36	12	48
CPL	6176	16	0	16	6	22	12	34	12	46	12	58
CPL	6326	7	0	7	6	13	12	25	12	37	12	49
CPL	6413	3	0	3	1	4	2	6	2	8	2	10
CPL	6423	3	0	3	0	3	0	3	0	3	0	3
CPL	6433	3	0	3	0	3	0	3	0	3	0	3
CPL	6467	1	0	1	2	3	4	7	4	11	4	15
CPL	6483	2	0	2	1	3	2	5	2	7	2	9
CPL	6492	2	0	2	0	2	0	2	0	2	0	2
CPL	6531	1	0	1	4	5	8	13	8	21	8	29
CPL	6541	0	0	0	2	2	4	6	4	10	4	14
CPL	6672	3	0	3	2	5	4	9	4	13	4	17
CPL	7041	0	0	0	1	1	2	3	2	5	2	7
GYSGT	0193	2	0	2	0	2	0	2	0	2	0	2
GYSGT	0491	0	0	0	1	1	2	3	2	5	2	7
GYSGT	6046	0	0	0	1	1	2	3	2	5	2	7
GYSGT	6048	1	0	1	1	2	2	4	2	6	2	8
GYSGT	6112	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6116	3	0	3	2	5	4	9	4	13	4	17
GYSGT	6156	1	0	1	1	2	2	4	2	6	2	8
GYSGT	6176	2	0	2	1	3	2	5	2	7	2	9
GYSGT	6226	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6317	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6326	2	0	2	1	3	2	5	2	7	2	9
GYSGT	6531	0	0	0	1	1	2	3	2	5	2	7
GYSGT	7041	1	0	1	0	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY05 +/- CUM	FY06 +/- CUM	FY07 +/- CUM	FY08 +/- CUM	FY09 +/- CUM
LCPL	0121		4	0 4	2 6	4 10	4 14	4 18
LCPL	0151		2	0 2	1 3	2 5	2 7	2 9
LCPL	0231		1	0 1	1 2	2 4	2 6	2 8
LCPL	0431		1	0 1	0 1	0 1	0 1	0 1
LCPL	2111		1	0 1	1 2	2 4	2 6	2 8
LCPL	5711		1	0 1	0 1	0 1	0 1	0 1
LCPL	6042		3	0 3	1 4	2 6	2 8	2 10
LCPL	6046		6	0 6	1 7	2 9	2 11	2 13
LCPL	6048		5	0 5	4 9	8 17	8 25	8 33
LCPL	6062		2	0 2	1 3	2 5	2 7	2 9
LCPL	6072		9	0 9	1 10	2 12	2 14	2 16
LCPL	6073		2	0 2	0 2	0 2	0 2	0 2
LCPL	6092		5	0 5	0 5	0 5	0 5	0 5
LCPL	6116		21	0 21	9 30	18 48	18 66	18 84
LCPL	6132		2	0 2	1 3	2 5	2 7	2 9
LCPL	6152		0	0 0	2 2	4 6	4 10	4 14
LCPL	6156		20	0 20	16 36	32 68	32 100	32 132
LCPL	6176		17	0 17	6 23	12 35	12 47	12 59
LCPL	6326		13	0 13	5 18	10 28	10 38	10 48
LCPL	6413		2	0 2	0 2	0 2	0 2	0 2
LCPL	6423		2	0 2	1 3	2 5	2 7	2 9
LCPL	6433		2	0 2	1 3	2 5	2 7	2 9
LCPL	6467		1	0 1	2 3	4 7	4 11	4 15
LCPL	6483		2	0 2	0 2	0 2	0 2	0 2
LCPL	6492		0	0 0	2 2	4 6	4 10	4 14
LCPL	6531		2	0 2	2 4	4 8	4 12	4 16
LCPL	6672		4	0 4	3 7	6 13	6 19	6 25
LCPL	7041		4	0 4	1 5	2 7	2 9	2 11
MGYSGT	6019		1	0 1	1 2	2 4	2 6	2 8
MGYSGT	9999		2	0 2	1 3	2 5	2 7	2 9
MSGT	0193		0	0 0	1 1	2 3	2 5	2 7
MSGT	6019		3	0 3	1 4	2 6	2 8	2 10
MSGT	6391		1	0 1	1 2	2 4	2 6	2 8
SGT	0121		2	0 2	1 3	2 5	2 7	2 9
SGT	0151		3	0 3	0 3	0 3	0 3	0 3
SGT	0231		1	0 1	0 1	0 1	0 1	0 1
SGT	0431		1	0 1	0 1	0 1	0 1	0 1
SGT	6012		0	0 0	1 1	2 3	2 5	2 7
SGT	6042		1	0 1	1 2	2 4	2 6	2 8
SGT	6046		2	0 2	0 2	0 2	0 2	0 2
SGT	6048		0	0 0	1 1	2 3	2 5	2 7
SGT	6062		2	0 2	0 2	0 2	0 2	0 2
SGT	6092		2	0 2	0 2	0 2	0 2	0 2
SGT	6116		10	0 10	2 12	4 16	4 20	4 24
SGT	6132		0	0 0	1 1	2 3	2 5	2 7
SGT	6156		6	0 6	3 9	6 15	6 21	6 27
SGT	6176		15	0 15	4 19	8 27	8 35	8 43
SGT	6326		6	0 6	2 8	4 12	4 16	4 20

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY05 +/- CUM	FY06 +/- CUM	FY07 +/- CUM	FY08 +/- CUM	FY09 +/- CUM
SGT	6412		2	0 2	0 2	0 2	0 2	0 2
SGT	6413		2	0 2	0 2	0 2	0 2	0 2
SGT	6414		1	0 1	0 1	0 1	0 1	0 1
SGT	6422		0	0 0	1 1	2 3	2 5	2 7
SGT	6433		2	0 2	1 3	2 5	2 7	2 9
SGT	6483		2	0 2	0 2	0 2	0 2	0 2
SGT	6492		2	0 2	0 2	0 2	0 2	0 2
SGT	6531		2	0 2	3 5	6 11	6 17	6 23
SGT	6672		1	0 1	1 2	2 4	2 6	2 8
SGT	8421		0	0 0	1 1	2 3	2 5	2 7
SGT	8711		1	0 1	1 2	2 4	2 6	2 8
SGT	9956		1	0 1	0 1	0 1	0 1	0 1
SSGT	0231		0	0 0	1 1	2 3	2 5	2 7
SSGT	6012		0	0 0	2 2	4 6	4 10	4 14
SSGT	6042		1	0 1	0 1	0 1	0 1	0 1
SSGT	6046		4	0 4	2 6	4 10	4 14	4 18
SSGT	6048		1	0 1	0 1	0 1	0 1	0 1
SSGT	6072		0	0 0	1 1	2 3	2 5	2 7
SSGT	6116		6	0 6	1 7	2 9	2 11	2 13
SSGT	6156		6	0 6	3 9	6 15	6 21	6 27
SSGT	6176		6	0 6	3 9	6 15	6 21	6 27
SSGT	6326		4	0 4	2 6	4 10	4 14	4 18
SSGT	6531		2	0 2	0 2	0 2	0 2	0 2
SSGT	6672		1	0 1	0 1	0 1	0 1	0 1
SSGT	7041		2	0 2	1 3	2 5	2 7	2 9
SSGT	8421		1	0 1	0 1	0 1	0 1	0 1
Staff Billets USMC and AR								
CPL	6156		3	0 3	0 3	0 3	0 3	0 3
GYSGT	6116		2	0 2	0 2	0 2	0 2	0 2
GYSGT	6326		1	0 1	0 1	0 1	0 1	0 1
SGT	6116		11	0 11	0 11	0 11	0 11	0 11
SGT	6156		2	0 2	0 2	0 2	0 2	0 2
SGT	6326		6	0 6	0 6	0 6	0 6	0 6
SSGT	6116		9	0 9	0 9	0 9	0 9	0 9
SSGT	6156		2	0 2	0 2	0 2	0 2	0 2
SSGT	6326		6	0 6	0 6	0 6	0 6	0 6

Chargeable Student Billets USMC and AR

10	4	14	18	32	19	51	9	60	7	67
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TOTAL USMC ENLISTED BILLETS:

Operational	336	0	336	162	498	324	822	324	1146	324	1470
Staff	42	0	42	0	42	0	42	0	42	0	42
Chargeable Student	10	4	14	18	32	19	51	9	60	7	67

II.B. ANNUAL TRAINING INPUT REQUIREMENTS
USMC TRAINING
CIN, COURSE TITLE: M-2A-0001, V-22 Pilot Training

COURSE LENGTH: 26.0 Weeks

ATTRITION FACTOR: Navy: 0% USMC: 0%

NAVY TOUR LENGTH: 36 Months

BACKOUT FACTOR: 0.52

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY05 OFF ENL	FY06 OFF ENL	FY07 OFF ENL	FY08 OFF ENL	FY09 OFF ENL
VMMT-204, MCAS New River	USMC	USMC	23	54	78	92	106
		TOTAL:	23	54	78	92	106

CIN, COURSE TITLE: M-050-6176, MV-22 Crew Chief

COURSE LENGTH: 11.6 Weeks

ATTRITION FACTOR: Navy: 0% USMC: 0%

NAVY TOUR LENGTH: 36 Months

BACKOUT FACTOR: 0.23

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY05 OFF ENL	FY06 OFF ENL	FY07 OFF ENL	FY08 OFF ENL	FY09 OFF ENL
VMMT-204, MCAS New River	USMC	USMC	18	39	59	70	77
		TOTAL:	18	39	59	70	77

CIN, COURSE TITLE: M-601-6116, MV-22 Power Plants and Related Systems Organizational Maintenance

COURSE LENGTH: 10.0 Weeks

ATTRITION FACTOR: Navy: 0% USMC: 0%

NAVY TOUR LENGTH: 36 Months

BACKOUT FACTOR: 0.19

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY05 OFF ENL	FY06 OFF ENL	FY07 OFF ENL	FY08 OFF ENL	FY09 OFF ENL
NAMTRA MARUNIT, MCAS New River	USMC	USMC	21	40	61	71	80
		TOTAL:	21	40	61	71	80

CIN, COURSE TITLE: M-602-6326, MV-22 Avionics and Electrical Systems Organizational Maintenance

COURSE LENGTH: 20.6 Weeks

ATTRITION FACTOR: Navy: 0% USMC: 0%

NAVY TOUR LENGTH: 36 Months

BACKOUT FACTOR: 0.28

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY05 OFF ENL	FY06 OFF ENL	FY07 OFF ENL	FY08 OFF ENL	FY09 OFF ENL
NAMTRA MARUNIT, MCAS New River	USMC	USMC	13	31	47	55	61
		TOTAL:	13	31	47	55	61

II.B. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-603-6156, MV-22 Airframe and Hydraulic Systems Organizational Maintenance

COURSE LENGTH: 11.0 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 0% USMC: 0%

BACKOUT FACTOR: 0.19

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY05		FY06		FY07		FY08		FY09	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTRA MARUNIT, MCAS New River												
	USMC	USMC		14		44		77		92		105
		TOTAL:		14		44		77		92		105

USAF TRAINING

CIN, COURSE TITLE: J3AZP2A656 000, CV-22 Electro-Environmental Systems Organizational Maintenance

COURSE LENGTH: 11.4 Weeks

USAF TOUR LENGTH: 36 Months

ATTRITION FACTOR: USAF: 0% USMC: 0%

BACKOUT FACTOR: 0.52

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY05		FY06		FY07		FY08		FY09	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1035, MCAS New River												
	USAF	USAF		14		11		11		11		14
		TOTAL:		14		11		11		11		14

CIN, COURSE TITLE: J3AZP2A352 000, CV-22 Integrated Avionics Systems Organizational Maintenance

COURSE LENGTH: 16.0 Weeks

USAF TOUR LENGTH: 36 Months

ATTRITION FACTOR: USAF: 0% USMC: 0%

BACKOUT FACTOR: 0.23

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY05		FY06		FY07		FY08		FY09	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1035, MCAS New River												
	USAF	USAF		11		12		12		12		12
		TOTAL:		11		12		12		12		12

CIN, COURSE TITLE: J3AZP2A651B 000, CV-22 Propulsion Systems Organizational Maintenance

COURSE LENGTH: 7.0 Weeks

USAF TOUR LENGTH: 36 Months

ATTRITION FACTOR: USAF: 0% USMC: 0%

BACKOUT FACTOR: 0.19

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY05		FY06		FY07		FY08		FY09	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1035, MCAS New River												
	USAF	USAF		9		7		7		7		9
		TOTAL:		9		7		7		7		9

II.B. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: J3AZP2A655 000, CV-22 Hydraulic Systems Organizational Maintenance

COURSE LENGTH: 9.6 Weeks

USAF TOUR LENGTH: 36 Months

ATTRITION FACTOR: USAF: 0% USMC: 0%

BACKOUT FACTOR: 0.28

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY05		FY06		FY07		FY08		FY09	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1035, MCAS New River	USAF	USAF		11		9		9		8		11
		TOTAL:		11		9		9		8		11

CIN, COURSE TITLE: J3AZP2A552 000, CV-22 Crew Chief Organizational Maintenance

COURSE LENGTH: 19.8 Weeks

USAF TOUR LENGTH: 36 Months

ATTRITION FACTOR: USAF: 0% USMC: 0%

BACKOUT FACTOR: 0.19

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY05		FY06		FY07		FY08		FY09	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1035, MCAS New River	USAF	USAF		31		34		34		36		32
		TOTAL:		31		34		34		36		32

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the V-22 Osprey and, therefore, are not included in Part III of this NTSP:

III.A.1. Initial Training Requirements

III.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

Note: Historically, training is established with 100 percent of E-4 and below receiving training and 60 percent of E-5 and above receiving training. In this document 100 percent of E-4 and above are scheduled for training as there are no USMC personnel returning to the V-22 program.

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

USMC TRAINING

CIN, COURSE TITLE: M-2A-0001, V-22 Pilot Training
 TRAINING ACTIVITY: VMMT-204
 LOCATION, UIC: MCAS New River, 52842

SOURCE: USMC STUDENT CATEGORY: USMC - AR

CFY05		FY06		FY07		FY08		FY09		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
23		54		78		92		106		ATIR
23		54		78		92		106		Output
11.3		26.6		38.4		45.3		52.2		AOB
11.3		26.6		38.4		45.3		52.2		Chargeable

CIN, COURSE TITLE: M-050-6176, MV-22 Crew Chief
 TRAINING ACTIVITY: VMMT-204
 LOCATION, UIC: MCAS New River, 52842

SOURCE: USMC STUDENT CATEGORY: USMC - AR

CFY05		FY06		FY07		FY08		FY09		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
18		39		59		70		77		ATIR
18		39		59		70		77		Output
3.9		8.5		12.8		15.4		16.8		AOB
3.9		8.5		12.8		15.4		16.8		Chargeable

CIN, COURSE TITLE: M-601-6116, MV-22 Power Plants and Related Systems Organizational Maintenance
 TRAINING ACTIVITY: NAMTRA MARUNIT
 LOCATION, UIC: MCAS New River, 52842

SOURCE: USMC STUDENT CATEGORY: USMC - AR

CFY05		FY06		FY07		FY08		FY09		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
21		40		61		71		80		ATIR
21		40		61		71		80		Output
3.9		7.3		11.1		12.8		14.5		AOB
3.9		7.3		11.1		12.8		14.5		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: M-602-6326, MV-22 Avionics and Electrical Systems Organizational Maintenance
TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

SOURCE: USMC STUDENT CATEGORY: USMC - AR

CFY05		FY06		FY07		FY08		FY09		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	13		31		47		55		61	ATIR
	13		31		47		55		61	Output
	3.5		8.1		12.4		14.6		16.2	AOB
	3.5		8.1		12.4		14.6		16.2	Chargeable

CIN, COURSE TITLE: M-603-6156, MV-22 Airframe and Hydraulic Systems Organizational Maintenance
TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

SOURCE: USMC STUDENT CATEGORY: USMC - AR

CFY05		FY06		FY07		FY08		FY09		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	14		44		77		92		105	ATIR
	14		44		77		92		105	Output
	2.5		8.0		13.9		16.6		18.9	AOB
	2.5		8.0		13.9		16.6		18.9	Chargeable

USAF TRAINING

CIN, COURSE TITLE: J3AZP2A656 000, CV-22 Electro-Environmental Systems Organizational Maintenance
TRAINING ACTIVITY: MTU 1035
LOCATION, UIC: MCAS New River, 52842

SOURCE: USAF STUDENT CATEGORY: USAF

CFY05		FY06		FY07		FY08		FY09		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	14		11		11		11		14	ATIR
	14		11		11		11		14	Output
	3.0		2.4		2.4		2.4		3.0	AOB
	3.0		2.4		2.4		2.4		3.0	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: J3AZP2A352 000, CV-22 Integrated Avionics Systems Organizational Maintenance
 TRAINING ACTIVITY: MTU 1035
 LOCATION, UIC: MCAS New River, 52842

SOURCE: USAF STUDENT CATEGORY: USAF

CFY05		FY06		FY07		FY08		FY09		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	11		12		12		12		12	ATIR
	11		12		12		12		12	Output
	3.3		3.6		3.6		3.6		3.6	AOB
	3.3		3.6		3.6		3.6		3.6	Chargeable

CIN, COURSE TITLE: J3AZP2A651B 000, CV-22 Propulsion Systems Organizational Maintenance
 TRAINING ACTIVITY: MTU 1035
 LOCATION, UIC: MCAS New River, 52842

SOURCE: USAF STUDENT CATEGORY: USAF

CFY05		FY06		FY07		FY08		FY09		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	9		7		7		7		9	ATIR
	9		7		7		7		9	Output
	0.8		0.7		0.7		0.7		0.8	AOB
	0.8		0.7		0.7		0.7		0.8	Chargeable

CIN, COURSE TITLE: J3AZP2A655 000, CV-22 Hydraulic Systems Organizational Maintenance
 TRAINING ACTIVITY: MTU 1035
 LOCATION, UIC: MCAS New River, 52842

SOURCE: USAF STUDENT CATEGORY: USAF

CFY05		FY06		FY07		FY08		FY09		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	11		9		9		8		11	ATIR
	11		9		9		8		11	Output
	3.5		1.6		1.6		1.4		16.2	AOB
	2.0		1.6		1.6		1.4		2.0	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: J3AZP2A552 000, CV-22 Crew Chief Organizational Maintenance

TRAINING ACTIVITY: MTU 1035

LOCATION, UIC: MCAS New River, 52842

SOURCE: USAF

STUDENT CATEGORY: USAF

CFY05		FY06		FY07		FY08		FY09		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	31		34		34		36		32	ATIR
	31		34		34		36		32	Output
	11.6		12.8		12.8		13.5		12.0	AOB
	11.6		12.8		12.8		13.5		12.0	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS
IV.A. TRAINING HARDWARE
IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-601-3626, V-22 Power Plant and Related Systems (Initial) Organizational Maintenance Course (Track M-050-6176)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
007	Infrared Suppressor Exhaust Cover Assembly (Part No. 901-020-916-101)	1	Jan 01	GFE	Onboard
008	IRS Inlets Cover Assembly (Part No. 901-020-914-101)	1	Jan 01	GFE	Onboard
009	Aircraft Ground Service Cover Assembly (Part No. 901-260-001-101)	1	Jan 01	GFE	Onboard
010	Engine Inlet Cover Assembly (Part No. 901-020-910-101)	1	Jan 01	GFE	Onboard
011	Engine Compartment Cooler Cover (Part No. 901-020-912-101)	1	Jan 01	GFE	Onboard
012	APU Exhaust Cover Assembly (Part No. 901-020-913-101)	1	Jan 01	GFE	Onboard
013	MWGB Oil Cooler Exhaust Cover Assembly (Part No. 901-020-908-101)	1	Jan 01	GFE	Onboard
014	Driveshaft Couplings Cover Set (Part No. 901-247-008-101)	1	Jan 01	GFE	Onboard
015	APU Intake Maintenance Cover Set (Part No. 901-220-946-101)	1	Jan 01	GFE	Onboard
016	Blade Fold Pin Assembly (Part No. 7240-00-246-1097)	1	Jan 01	GFE	Onboard
017	Wingstow Pin Assembly (Part No. MS14531-4C31423)	3	Jan 01	GFE	Onboard
018	Dust Protector (Part No. 23037951)	1	Jan 01	GFE	Onboard
019	Optical Proprotor Probe Lead Assembly (Part No. C22161)	1	Jan 01	GFE	Onboard
020	Personal Safety Lanyard (Part No. 901-232-002-101)	1	Jan 01	GFE	Onboard
021	Sling Swashplate Lifting Assembly (Part No. 901-220-949-101)	1	Jan 01	GFE	Onboard
022	Pendulum Sling Assembly (Part No. 901-210-015-101)	1	Jan 01	GFE	Onboard
ST					
201	B-4 Maintenance Platform (Part No. 47R16420)	1	Jan 01	GFE	Onboard
202	B-2 Maintenance Stand (Part No. 48J20090)	1	Jan 01	GFE	Onboard
203	B-1 Maintenance Stand (Part No. 901-220-925-105)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

204	B-5 Maintenance Stand (Part No. 54J6345)	1	Jan 01	GFE	Onboard
244	Servicing Unit (Part No. ASI-HC-108)	1	Jan 01	GFE	Onboard
245	Drainline Attachment (Part No. H202-144)	1	Jan 01	GFE	Onboard
246	Caliper Dial 0-6 in range, 0.001Grad (Part No. CM6422A)	2	Jan 01	GFE	Onboard
247	Engine Winch Assembly (Part No. 901-220-901-103)	1	Jan 01	GFE	Onboard
248	O-Ring Extractor Set (Part No. 748407)	1	Jan 01	GFE	Onboard
249	Jackscrew Set (Part No. 901-215-932-107)	1	Jan 01	GFE	Onboard
250	Socket Head T Handle Set (Part No. GAW1916)	1	Jan 01	GFE	Onboard
251	115V Measure Tape (Part No. ECU250A)	1	Jan 01	GFE	Onboard
252	Utility Ohmmeter Pail (Part No. R1L-E)	1	Jan 01	GFE	Onboard
253	Blade Tracker (Part No. 901-275-600-101)	1	Jan 01	GFE	Onboard
254	Rivet Scriber Punch (Part No. 1193-1-8)	1	Jan 01	GFE	Onboard
255	0-75 Inch-lb Dial Wrench Torque Drive (Part No. TE6FUA)	1	Jan 01	GFE	Onboard
256	0-150 lb 3/8 Drive Torque Wrench (Part No. TE12FUA)	1	Jan 01	GFE	Onboard
257	0-300 lb 3/8 Drive Torque Wrench (Part No. TE25FUA)	1	Jan 01	GFE	Onboard
258	0-600 lb 3/8 Drive Torque Wrench (Part No. TE50FUA)	1	Jan 01	GFE	Onboard
259	0-100 lb 3/8 Drive Torque Wrench (Part No. 850287)	1	Jan 01	GFE	Onboard
260	30-200 lb 3/8 Drive Torque Wrench (Part No. 2002MR)	1	Jan 01	GFE	Onboard
261	0-300 lb 3/8 Drive Torque Wrench (Part No. S30013-8)	1	Jan 01	GFE	Onboard
262	0-30 lb Click 1/4 Drive Torque Wrench (Part No. QTSP130P)	1	Jan 01	GFE	Onboard
263	30-200 lb Click 1/4 Drive Torque Wrench (Part No. QJR3200C)	1	Jan 01	GFE	Onboard
264	0-150 lb 3/8 Drive Torque Wrench (Part No. TQ12B)	1	Jan 01	GFE	Onboard
265	30-200 lb 1/4 Drive Torque Wrench (Part No. QJR117E)	1	Jan 01	GFE	Onboard
266	15-50 lb 1/4 Drive Torque Wrench (Part No. VST15/50)	1	Jan 01	GFE	Onboard
267	15-100 lb 3/8 Drive Torque Wrench (Pt QJ2100C0)	1	Jan 01	GFE	Onboard
268	5-75 lb 3/8 Drive Torque Wrench (Pt QJFR275E)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

269	150-1000 Inch lb 3/8 Drive Torque Wrench (Part No. QJ284C)	1	Jan 01	GFE	Onboard
270	Pitch Change Link Wrench (Part No. 3670AS100-1)	1	Jan 01	GFE	Onboard
271	Pneumatic Vacuum Cleaner (Part No. GS-28)	1	Jan 01	GFE	Onboard
272	Explosion Proof Pneumatic Vacuum (Part No. 110264A)	1	Jan 01	GFE	Onboard
273	Composite Repair Vacuum (Part No. 4SE01754)	1	Jan 01	GFE	Onboard
274	Spill Response Kit (Part No. 9040217VK)	1	Jan 01	GFE	Onboard
275	Actuator Prop, Hub Pitch Adapter Trailer (Part No. 901-220-951-101)	1	Jan 01	GFE	Onboard
276	TAGB Adapter Lifting (Part No. 901-220-924-103)	1	Jan 01	GFE	Onboard
277	Engine Adapter Yoke FWD (Part No. 25055339)	1	Jan 01	GFE	Onboard
278	Engine Handling Adapter (Part No. 23063563)	1	Jan 01	GFE	Onboard
279	Tester (Part No. 23034379)	1	Jan 01	GFE	Onboard
280	Adapter Mounting Attaching Aft (Part No. 23034380)	1	Jan 01	GFE	Onboard
281	Engine Handling Adapter Trailer (Part No. 23066451)	1	Jan 01	GFE	Onboard
282	Crane Stand (Part No. 54J6279)	1	Jan 01	GFE	Onboard
283	Maintenance Crane (Part No. 3070AS100-1)	1	Jan 01	GFE	Onboard
284	Maintenance Portable Dispensing Cart (Part No. 901-220-941-103)	1	Jan 01	GFE	Onboard
285	Diesel Engine Hydraulic Generator Cart (Part No. 630-AS100-11)	1	Jan 01	GFE	Onboard
286	Hydraulic Supply Starter System (Part No. 3483AS100-1)	1	Jan 01	GFE	Onboard
287	20 Ton Hydraulic Tripod Jack (Part No. 59J6185)	1	Jan 01	GFE	Onboard
288	Pre-oiler (Part No. 61A108J1-1)	1	Jan 01	GFE	Onboard
289	PRGB Lockout Positioning Fixture (Part No. 901-244-002-103)	2	Jan 01	GFE	Onboard
290	PRGB Trailer Adapter (Part No. 901-220-909-103)	1	Jan 01	GFE	Onboard
291	Sling Assembly Hub, P/R Blades (Part No. 901-220-902-103)	1	Jan 01	GFE	Onboard
292	Sling Assembly, Pendulum Damper (Part No. 901-210-015-101)	1	Jan 01	GFE	Onboard
293	PRGB/TAGB Sling Assembly (Part No. 901-220-958-101)	1	Jan 01	GFE	Onboard
294	Multiple Application (Part No. 901-220-928-101)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

295	APU Sling Assembly (Part No. 901-220-927-101)	1	Jan 01	GFE	Onboard
296	Stand Hub/Blade Assembly (Part No. 901-220-948-101)	1	Jan 01	GFE	Onboard
297	Tank/Pump Unit Liquid Dispensing (Part No. PMU29E)	1	Jan 01	GFE	Onboard
298	Thread Protector (Part No. 901-244-080-101)	1	Jan 01	GFE	Onboard
299	Trailer Adapter APU (Part No. 901-220-926-103)	2	Jan 01	GFE	Onboard
300	Trailer Rail (Part No. 107640)	2	Jan 01	GFE	Onboard
301	Transportation Trailer (Part No. 1480AS100-1)	1	Jan 01	GFE	Onboard
302	Trailer Adapter Swashplate (Part No. 901-220-935-101)	2	Jan 01	GFE	Onboard
303	Wing Support Adapter Set (Part No. 901-220-929-103)	1	Jan 01	GFE	Onboard
304	Hub Lifting Sling (Part No. 901-220-900-103)	1	Jan 01	GFE	Onboard

SPETE

520	Stationary 400Hz Power Supply (Part No. PA120-3-G-1-V)	1	Jan 01	GFE	Onboard
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CIN, COURSE TITLE: C-601-3628, V-22 Environmental Control System (Initial) Organizational Maintenance Course (Track M-050-6176)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Probe Lead Assembly (Part No. C22161)	2	Jan 01	GFE	Onboard
ST					
207	Universal Aircraft Jet Start Unit (Part No. 3323AS100-1)	1	Jan 01	GFE	Onboard
211	Power Plant, Mobile Electric (Part No. 328AS100-3)	1	Jan 01	GFE	Onboard
231	Maintenance Crane Hoist, 8.5 Ton (Part No. Unknown)	1	Jan 01	GFE	Onboard
239	Oxygen Servicing Trailer (Part No. 1828AS100-1)	1	Jan 01	GFE	
240	HFC-134A Refrigerant Reclaimer (Part No. ST-1000-HFC)	1	Jan 01	GFE	Onboard
241	Sling Assembly (Part No. 901-220-928-103)	1	Jan 01	GFE	Onboard
242	Pressure Fill Tank Pre-oiler (Part No. 61A108J1-1)	1	Jan 01	GFE	Onboard
602	ECU/NBC Leakage Test Set (Part No. 918770-1-1)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

GPETE

401	Ohmmeter (Part No. T477W)	1	Jan 01	GFE	Onboard
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CIN, COURSE TITLE: C-601-3629, V-22 Enlisted Aircrew Course (Track M-050-6176)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
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ST

243	Preflight Tool Kit (Part No. Unknown)	10	Jan 01	GFE	Onboard
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CIN, COURSE TITLE: C-601-3626, V-22 Power Plant and Related Systems (Initial) Organizational Maintenance Course (Track M-601-6116)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
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TTE

007	Infrared Suppressor Exhaust Cover Assembly (Part No. 901-020-916-101)	1	Jan 01	GFE	Onboard
008	IRS Inlets Cover Assembly (Part No. 901-020-914-101)	1	Jan 01	GFE	Onboard
009	Aircraft Ground Service Cover Assembly (Part No. 901-260-001-101)	1	Jan 01	GFE	Onboard
010	Engine Inlet Cover Assembly (Part No. 901-020-910-101)	1	Jan 01	GFE	Onboard
011	Engine Compartment Cooler Cover (Part No. 901-020-912-101)	1	Jan 01	GFE	Onboard
012	APU Exhaust Cover Assembly (Part No. 901-020-913-101)	1	Jan 01	GFE	Onboard
013	MWGB Oil Cooler Exhaust Cover Assembly (Part No. 901-020-908-101)	1	Jan 01	GFE	Onboard
014	Driveshaft Couplings Cover Set (Part No. 901-247-008-101)	1	Jan 01	GFE	Onboard
015	APU Intake Maintenance Cover Set (Part No. 901-220-946-101)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

016	Blade Fold Pin Assembly (Part No. 7240-00-246-1097)	1	Jan 01	GFE	Onboard
017	Wingstow Pin Assembly (Part No. MS14531-4C31423)	3	Jan 01	GFE	Onboard
018	Dust Protector (Part No. 23037951)	1	Jan 01	GFE	Onboard
019	Optical Proprotor Probe Lead Assembly (Part No. C22161)	1	Jan 01	GFE	Onboard
020	Personal Safety Lanyard (Part No. 901-232-002-101)	1	Jan 01	GFE	Onboard
021	Sling Swashplate Lifting Assembly (Part No. 901-220-949-101)	1	Jan 01	GFE	Onboard
022	Pendulum Sling Assembly (Part No. 901-210-015-101)	1	Jan 01	GFE	Onboard
ST					
201	B-4 Maintenance Platform (Part No. 47R16420)	1	Jan 01	GFE	Onboard
202	B-2 Maintenance Stand (Part No. 48J20090)	1	Jan 01	GFE	Onboard
203	B-1 Maintenance Stand (Part No. 901-220-925-105)	1	Jan 01	GFE	Onboard
204	B-5 Maintenance Stand (Part No. 54J6345)	1	Jan 01	GFE	Onboard
244	Servicing Unit (Part No. ASI-HC-108)	1	Jan 01	GFE	Onboard
245	Drainline Attachment (Part No. H202-144)	1	Jan 01	GFE	Onboard
246	Caliper Dial 0-6 in range, 0.001Grad (Part No. CM6422A)	2	Jan 01	GFE	Onboard
247	Engine Winch Assembly (Part No. 901-220-901-103)	1	Jan 01	GFE	Onboard
248	O-Ring Extractor Set (Part No. 748407)	1	Jan 01	GFE	Onboard
249	Jackscrew Set (Part No. 901-215-932-107)	1	Jan 01	GFE	Onboard
250	Socket Head T Handle Set (Part No. GAW1916)	1	Jan 01	GFE	Onboard
251	115V Measure Tape (Part No. ECU250A)	1	Jan 01	GFE	Onboard
252	Utility Ohmmeter Pail (Part No. R1L-E)	1	Jan 01	GFE	Onboard
253	Blade Tracker (Part No. 901-275-600-101)	1	Jan 01	GFE	Onboard
254	Rivet Scriber Punch (Part No. 1193-1-8)	1	Jan 01	GFE	Onboard
255	0-75 Inch-lb Dial Wrench Torque Drive (Part No. TE6FUA)	1	Jan 01	GFE	Onboard
256	0-150 lb 3/8 Drive Torque Wrench (Part No. TE12FUA)	1	Jan 01	GFE	Onboard
257	0-300 lb 3/8 Drive Torque Wrench (Part No. TE25FUA)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

258	0-600 lb 3/8 Drive Torque Wrench (Part No. TE50FUA)	1	Jan 01	GFE	Onboard
259	0-100 lb 3/8 Drive Torque Wrench (Part No. 850287)	1	Jan 01	GFE	Onboard
260	30-200 lb 3/8 Drive Torque Wrench (Part No. 2002MR)	1	Jan 01	GFE	Onboard
261	0-300 lb 3/8 Drive Torque Wrench (Part No. S30013-8)	1	Jan 01	GFE	Onboard
262	0-30 lb Click 1/4 Drive Torque Wrench (Part No. QTSP130P)	1	Jan 01	GFE	Onboard
263	30-200 lb Click 1/4 Drive Torque Wrench (Part No. QJR3200C)	1	Jan 01	GFE	Onboard
264	0-150 lb 3/8 Drive Torque Wrench (Part No. TQ12B)	1	Jan 01	GFE	Onboard
265	30-200 lb 1/4 Drive Torque Wrench (Part No. QJR117E)	1	Jan 01	GFE	Onboard
266	15-50 lb 1/4 Drive Torque Wrench (Part No. VST15/50)	1	Jan 01	GFE	Onboard
267	15-100 lb 3/8 Drive Torque Wrench (Pt QJ2100C0)	1	Jan 01	GFE	Onboard
268	5-75 lb 3/8 Drive Torque Wrench (Pt QJFR275E)	1	Jan 01	GFE	Onboard
269	150-1000 Inch lb 3/8 Drive Torque Wrench (Part No. QJ284C)	1	Jan 01	GFE	Onboard
270	Pitch Change Link Wrench (Part No. 3670AS100-1)	1	Jan 01	GFE	Onboard
271	Pneumatic Vacuum Cleaner (Part No. GS-28)	1	Jan 01	GFE	Onboard
272	Explosion Proof Pneumatic Vacuum (Part No. 110264A)	1	Jan 01	GFE	Onboard
273	Composite Repair Vacuum (Part No. 4SE01754)	1	Jan 01	GFE	Onboard
274	Spill Response Kit (Part No. 9040217VK)	1	Jan 01	GFE	Onboard
275	Actuator Prop, Hub Pitch Adapter Trailer (Part No. 901-220-951-101)	1	Jan 01	GFE	Onboard
276	TAGB Adapter Lifting (Part No. 901-220-924-103)	1	Jan 01	GFE	Onboard
277	Engine Adapter Yoke FWD (Part No. 25055339)	1	Jan 01	GFE	Onboard
278	Engine Handling Adapter (Part No. 23063563)	1	Jan 01	GFE	Onboard
279	Tester (Part No. 23034379)	1	Jan 01	GFE	Onboard
280	Adapter Mounting Attaching Aft (Part No. 23034380)	1	Jan 01	GFE	Onboard
281	Engine Handling Adapter Trailer (Part No. 23066451)	1	Jan 01	GFE	Onboard
282	Crane Stand (Part No. 54J6279)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

283	Maintenance Crane (Part No. 3070AS100-1)	1	Jan 01	GFE	Onboard
284	Maintenance Portable Dispensing Cart (Part No. 901-220-941-103)	1	Jan 01	GFE	Onboard
285	Diesel Engine Hydraulic Generator Cart (Part No. 630-AS100-11)	1	Jan 01	GFE	Onboard
286	Hydraulic Supply Starter System (Part No. 3483AS100-1)	1	Jan 01	GFE	Onboard
287	20 Ton Hydraulic Tripod Jack (Part No. 59J6185)	1	Jan 01	GFE	Onboard
288	Pre-oiler (Part No. 61A108J1-1)	1	Jan 01	GFE	Onboard
289	PRGB Lockout Positioning Fixture (Part No. 901-244-002-103)	2	Jan 01	GFE	Onboard
290	PRGB Trailer Adapter (Part No. 901-220-909-103)	1	Jan 01	GFE	Onboard
291	Sling Assembly Hub, P/R Blades (Part No. 901-220-902-103)	1	Jan 01	GFE	Onboard
292	Sling Assembly, Pendulum Damper (Part No. 901-210-015-101)	1	Jan 01	GFE	Onboard
293	PRGB/TAGB Sling Assembly (Part No. 901-220-958-101)	1	Jan 01	GFE	Onboard
295	APU Sling Assembly (Part No. 901-220-927-101)	1	Jan 01	GFE	Onboard
296	Stand Hub/Blade Assembly (Part No. 901-220-948-101)	1	Jan 01	GFE	Onboard
297	Tank/Pump Unit Liquid Dispensing (Part No. PMU29E)	1	Jan 01	GFE	Onboard
298	Thread Protector (Part No. 901-244-080-101)	1	Jan 01	GFE	Onboard
299	Trailer Adapter APU (Part No. 901-220-926-103)	2	Jan 01	GFE	Onboard
300	Trailer Rail (Part No. 107640)	2	Jan 01	GFE	Onboard
301	Transportation Trailer (Part No. 1480AS100-1)	1	Jan 01	GFE	Onboard
302	Trailer Adapter Swashplate (Part No. 901-220-935-101)	2	Jan 01	GFE	Onboard
303	Wing Support Adapter Set (Part No. 901-220-929-103)	1	Jan 01	GFE	Onboard
304	Hub Lifting Sling (Part No. 901-220-900-103)	1	Jan 01	GFE	Onboard
SPETE					
520	Stationary 400Hz Power Supply (Part No. PA120-3-G-1-V)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-601-3628, V-22 Environmental Control System (Initial) Organizational Maintenance Course (Track M-601-6116)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Probe Lead Assembly (Part No. C22161)	2	Jan 01	GFE	Onboard
ST					
207	Universal Aircraft Jet Start Unit (Part No. 3323AS100-1)	1	Jan 01	GFE	Onboard
211	Power Plant, Mobile Electric (Part No. 328AS100-3)	1	Jan 01	GFE	Onboard
231	Maintenance Crane Hoist, 8.5 Ton (Part No. Unknown)	1	Jan 01	GFE	Onboard
239	Oxygen Servicing Trailer (Part No. 1828AS100-1)	1	Jan 01	GFE	Onboard
240	HFC-134A Refrigerant Reclaimer (Part No. ST-1000-HFC)	1	Jan 01	GFE	Onboard
241	Sling Assembly (Part No. 901-220-928-103)	1	Jan 01	GFE	Onboard
242	Pressure Fill Tank Pre-oiler (Part No. 61A108J1-1)	1	Jan 01	GFE	Onboard
602	ECU/NBC Leakage Test Set (Part No. 918770-1-1)	1	Jan 01	GFE	Onboard
GPETE					
401	Ohmmeter (Part No. T477W)	1	Jan 01	GFE	Onboard

CIN, COURSE TITLE: C-198-3626, V-22 Cockpit Management Systems (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Probe Lead Assembly (Part No. C22161)	1	Jan 01	GFE	Onboard
ST					
211	Power Plant, Mobile Electric (Part No. 328AS100-3)	1	Jan 01	GFE	Onboard
217	Rapid Reprogrammable Terminal Software (Part No. Unknown)	1	Jan 01	GFE	Onboard
GPETE					
401	Ohmmeter (Part No. T477W)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

402	Digital Multimeter, 3.5 Digit (Part No. 77BN)	1	Jan 01	GFE	Onboard
403	Display Unit (Part No. Unknown)	1	Jan 01	GFE	Onboard
SPETE					
501	Memory Loader Verifier Set (Part No. Unknown)	1	Jan 01	GFE	Onboard
502	Cable Assembly Set, Special 1553 Data Bus (Part No. Unknown)	1	Jan 01	GFE	Onboard
503	1553 Data Bus Network Tester (Part No. Unknown)	1	Jan 01	GFE	Onboard

CIN, COURSE TITLE: C-102-3636, V-22 Electrical Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Probe Lead Assembly (Part No. C22161)	1	Jan 01	GFE	Onboard
ST					
203	B-1 Maintenance Stand (Part No. 901-220-925-105)	2	Jan 01	GFE	Onboard
204	B-5 Maintenance Stand (Part No. 54J6345)	1	Jan 01	GFE	Onboard
205	Electric Mobile Power Plant (Part No. 328AS100-2)	1	Jan 01	GFE	Onboard
206	Air Start Trailer Unit (Part No. 1203AS100-1)	1	Jan 01	GFE	Onboard
207	Universal Aircraft Jet Start Unit (Part No. 3323AS100-1)	1	Jan 01	GFE	Onboard
208	Cargo Hook Auto-Jetison Test Set (Part No. 901-220-001-101)	1	Jan 01	GFE	Onboard
211	Power Plant, Mobile Electric (Part No. 328AS100-3)	1	Jan 01	GFE	Onboard
GPETE					
401	Ohmmeter (Part No. T477W)	1	Jan 01	GFE	Onboard
402	Digital Multimeter, 3.5 Digit (Part No. 77BN)	2	Jan 01	GFE	Onboard
SPETE					
504	Aircraft Wiring Tool Set (Part No. 3329AS100-1)	1	Jan 01	GFE	Onboard
505	Program Loader (Part No. 5922000000-01)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-198-3628, V-22 Flight Control Systems (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Probe Lead Assembly (Part No. C22161)	1	Jan 01	GFE	Onboard
002	Driveshaft Coupling Cover Shaft (Part No. Unknown)	1	Jan 01	GFE	Onboard
ST					
201	B-4 Maintenance Platform (Part No. 47R16420)	1	Jan 01	GFE	Onboard
203	B-1 Maintenance Stand (Part No. 901-220-925-105)	1	Jan 01	GFE	Onboard
209	Hydraulic/Pneumatic Component Test Stand (Part No. Unknown)	1	Jan 01	GFE	Onboard
210	Hydraulic Supply Starter System (Part No. Unknown)	1	Jan 01	GFE	Onboard
211	Power Plant, Mobile Electric (Part No. 328AS100-3)	1	Jan 01	GFE	Onboard
GPETE					
401	Ohmmeter (Part No. T477W)	1	Jan 01	GFE	Onboard
SPETE					
506	Air Data Accessory Set (Part No. Unknown)	1	Jan 01	GFE	Onboard
507	Air Data Test Set (Part No. Unknown)	1	Jan 01	GFE	Onboard
517	Flight Line Test Set, AAR-47 (Part No. Unknown)	1	Jan 01	GFE	Onboard

CIN, COURSE TITLE: C-102-3627, V-22 Avionics Systems (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Probe Lead Assembly (Part No. C22161)	1	Jan 01	GFE	Onboard
003	Receiver - Transmitter (Part No. RT841PRC77)	2	Jan 01	GFE	Onboard
ST					
201	B-4 Maintenance Platform (Part No. 47R16420)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

202	B-2 Maintenance Stand (Part No. 48J20090)	1	Jan 01	GFE	Onboard
203	B-1 Maintenance Stand (Part No. 901-220-925-105)	1	Jan 01	GFE	Onboard
211	Power Plant, Mobile Electric (Part No. 328AS100-3)	1	Jan 01	GFE	Onboard
212	Coax Adapter Set (Part No. 901-270-006-101)	1	Jan 01	GFE	Onboard
213	1553 Adapter Set (Part No. 901-270-007-101)	1	Jan 01	GFE	Onboard
214	MAGR Data Cable (Part No. 3486AS100-1)	1	Jan 01	GFE	Onboard
215	Electric Dummy Load (Part No. Unknown)	1	Jan 01	GFE	Onboard
216	Absorption Wattmeter (Part No. PM10B)	1	Jan 01	GFE	Onboard
218	Trailer Mounted Diesel Engine Generator (Part No. Unknown)	1	Jan 01	GFE	Onboard

GPETE

401	Ohmmeter (Part No. T477W)	1	Jan 01	GFE	Onboard
402	Digital Multimeter, 3.5 Digit (Part No. 77BN)	1	Jan 01	GFE	Onboard
404	DC Power Supply (Part No. E3617A)	1	Jan 01	GFE	Onboard
405	Signal Generator (Part No. 4795-6A)	1	Jan 01	GFE	Onboard

SPETE

503	1553 Data Bus Network Tester (Part No. Unknown)	1	Jan 01	GFE	Onboard
508	Radio (VOR/ILS Marker Beacon) Test Set (Part No. Unknown)	1	Jan 01	GFE	Onboard
509	Radio Test Set (Part No. 1000-0000)	1	Jan 01	GFE	Onboard
510	Data Transfer Device (Part No. AN/CYZ-10)	1	Jan 01	GFE	Onboard
511	RF Termination Type Power Meter (Part No. 6154)	1	Jan 01	GFE	Onboard
512	IFF Portable Transponder Test Set (Part No. AN/APM-424(V)2)	1	Jan 01	GFE	Onboard
513	Metallic TDR Cable Tester (Part No. 1502C)	1	Jan 01	GFE	Onboard
514	Program Loader (Part No. 5922000000-01)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-102-3629, V-22 Forward Looking Infrared (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
ST					
211	Power Plant, Mobile Electric (Part No. 328AS100-3)	1	Jan 01	GFE	Onboard
219	TFU Adapter Handle (Part No. 901-270-005-101)	1	Jan 01	GFE	Onboard
GPETE					
402	Digital Multimeter, 3.5 Digit (Part No. 77BN)	1	Jan 01	GFE	Onboard
404	DC Power Supply (Part No. E3617A)	1	Jan 01	GFE	Onboard

CIN, COURSE TITLE: C-102-3630, V-22 Electronic Warfare System (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Probe Lead Assembly (Part No. C22161)	1	Jan 01	GFE	Onboard
ST					
211	Power Plant, Mobile Electric (Part No. 328AS100-3)	1	Jan 01	GFE	Onboard
GPETE					
401	Ohmmeter (Part No. T477W)	1	Jan 01	GFE	Onboard
SPETE					
515	Countermeasures Chaff Dispensing Set Tester (Part No. Unknown)	1	Jan 01	GFE	Onboard
516	Radar Signal Simulator, Hand Held (Part No. Unknown)	1	Jan 01	GFE	Onboard
518	Countermeasures Test Set (AN/ALM-286) (Part No. Unknown)	2	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-603-3626, V-22 Hydraulic Systems (Initial) Organizational Maintenance Course (Track M-603-6156)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
002	Driveshaft Coupling Cover Shaft (Part No. Unknown)	1	Jan 01	GFE	Onboard
004	Bladefold and Wing Stow Pin Assembly (Part No. Unknown)	1	Jan 01	GFE	Onboard
005	Hydraulic Supply Starter System (Part No. Unknown)	1	Jan 01	GFE	Onboard
006	Trailer Adapter, Conversion Actuator (Part No. Unknown)	1	Jan 01	GFE	Onboard
GPTE					
101	Manual Pressure Temperature Test Set (Part No. Unknown)	1	Jan 01	GFE	Onboard
ST					
201	B-4 Maintenance Platform (Part No. 47R16420)	1	Jan 01	GFE	Onboard
203	B-1 Maintenance Stand (Part No. 901-220-925-105)	1	Jan 01	GFE	Onboard
204	B-5 Maintenance Stand (Part No. 54J6345)	1	Jan 01	GFE	Onboard
211	Power Plant, Mobile Electric (Part No. 328AS100-3)	1	Jan 01	GFE	Onboard
220	W53 Adapter, AN/AWM-54 Test Set (Part No. Unknown)	1	Jan 01	GFE	Onboard
221	Hydraulic Tripod Jack, Model T25-1FH (Part No. Unknown)	4	Jan 01	GFE	Onboard
222	Portable Nitrogen Cylinder Assembly (Part No. Unknown)	2	Jan 01	GFE	Onboard
223	Hydraulic Fluid Dispensing Cart (Part No. Unknown)	1	Jan 01	GFE	Onboard
224	Aircraft Tow Bar (Part No. Unknown)	1	Jan 01	GFE	Onboard
225	Fluid Servicing Unit (Part No. 630AS100-11)	12	Jan 01	GFE	Onboard
226	Nitrogen Servicing Unit (Part No. NAN-4)	1	Jan 01	GFE	Onboard
227	Tractor, Wheeled, Aircraft Towing (Part No. Unknown)	1	Jan 01	GFE	Onboard
228	Valve Tool High Pressure (Part No. Unknown)	1	Jan 01	GFE	Onboard
229	Portable Air Compressor (Part No. Unknown)	1	Jan 01	GFE	Onboard
230	Nitrogen Servicing Hand Truck (Part No. Unknown)	1	Jan 01	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

231	Maintenance Crane Hoist, 8.5 Ton (Part No. Unknown)	1	Jan 01	GFE	Onboard
232	Hydraulic Fluid Contamination Analysis Kit (Part No. Unknown)	1	Jan 01	GFE	Onboard
GPETE					
401	Ohmmeter (Part No. T477W)	1	Jan 01	GFE	Onboard
402	Digital Multimeter, 3.5 Digit (Part No. 77BN)	1	Jan 01	GFE	Onboard
SPETE					
506	Air Data Accessory Set (Part No. Unknown)	1	Jan 01	GFE	Onboard
507	Air Data Test Set (Part No. Unknown)	1	Jan 01	GFE	Onboard
519	AN/AWM-54 Aircraft Firing Circuit Test Set (Part No. Unknown)	1	Jan 01	GFE	Onboard

CIN, COURSE TITLE: C-603-3627, V-22 Airframes/Composite Repair (Initial) Organizational Maintenance Course (Track M-603-6156)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Probe Lead Assembly (Part No. C22161)	1	Jan 01	GFE	Onboard
ST					
201	B-4 Maintenance Platform (Part No. 47R16420)	1	Jan 01	GFE	Onboard
203	B-1 Maintenance Stand (Part No. 901-220-925-105)	1	Jan 01	GFE	Onboard
233	Optical Micrometer (Part No. 8400K)	1	Jan 01	GFE	Onboard
234	Composite Repair Kit (Part No. Unknown)	1	Jan 01	GFE	Onboard
235	Flow Detector (Part No. 022-506-552)	1	Jan 01	GFE	Onboard
236	Dial Depth Gage (Part No. 643J)	1	Jan 01	GFE	Onboard
237	Clip Micrometer (Part No. T230R)	1	Jan 01	GFE	Onboard
238	Port Air Compressor (Part No. Unknown)	1	Jan 01	GFE	Onboard
601	Ultra Sonic STD Set (Part No. 901-220-950-101)	1	Jan 01	GFE	Onboard
GPETE					
401	Ohmmeter (Part No. T477W)	1	Jan 01	GFE	Onboard

IV.A.2. TRAINING DEVICES

DEVICE: Cockpit Procedure Trainer (CPT)
DESCRIPTION: The Cockpit Procedure Trainer consists of a full size replica of the V-22 cockpit, mounted on a fixed base, used to instruct aircraft systems and procedures. The CPT simulates MV-22B aircraft performance during cockpit preflight, aircraft start-up, navigational and instrument flight, aircraft shut-down, and cockpit postflight procedures.

MANUFACTURER: Bell - Boeing

CONTRACT NUMBER: UNK

TEE STATUS: NA

TRAINING ACTIVITY: VMMT-204

LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	FY04	FY04	Onboard	C-2A-0001 (Track M-2A-0001) C-198-3626 (Track M-602-6326)

DEVICE: Flight Training Device (FTD)
DESCRIPTION: The Flight Training Device is a flight deck replica of the MV-22, representative in appearance, flight performance characteristics, and system operation. The device has a full field of view visual simulation system and provides a flight deck identical to the FFS, but without the motion system.

MANUFACTURER: Bell - Boeing

CONTRACT NUMBER: UNK

TEE STATUS: NA

TRAINING ACTIVITY: VMMT-204

LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jun 03	Jun 03	Onboard	C-2A-0001 (Track M-2A-0001)
1	Jun 07	Jun 07	Pending	C-2A-0001 (Track M-2A-0001)
1	Jun 08	Jun 08	Pending	C-2A-0001 (Track M-2A-0001)

IV.A.2. TRAINING DEVICES

DEVICE: Full Flight Simulator (FFS)
DESCRIPTION: The Full Flight Simulator is a flight deck replica of the MV-22, representative in appearance, flight performance characteristics, and system operation. The device is equipped with a six degree of freedom motion base, tactical/threat environment, and a full field of view visual simulation system.
MANUFACTURER: Bell - Boeing
CONTRACT NUMBER: UNK
TEE STATUS: NA
TRAINING ACTIVITY: VMMT-204
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jun 03	Jun 03	Onboard	C-2A-0001 (Track M-2A-0001)
1	Jun 03	Jun 03	Onboard	C-2A-0001 (Track M-2A-0001)
1	Jun 03	Jun 03	Pending	C-2A-0001 (Track M-2A-0001)
1	Jun 07	Jun 07	Pending	C-2A-0001 (Track M-2A-0001)

DEVICE: Airframes Part Task Trainer (AFPTT)
DESCRIPTION: The Airframes Part Task Trainer is a replica of the wing (60%), from just beyond the mid-wing area out to and including the nacelle, and includes the gearboxes, drivetrain, engine, and propotor components. Additionally, it includes flight surfaces.
MANUFACTURER: Bell - Boeing
CONTRACT NUMBER: NA
TEE STATUS: NA
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jan 01	Oct 02	Onboard	C-601-3626 (Track M-050-6176)
				C-601-3626 (Track M-601-6116)
				C-603-3626 (Track M-603-6156)
				C-603-3627 (Track M-603-6156)

IV.A.2. TRAINING DEVICES

DEVICE: Aircraft Maintenance Trainer (AMT)
DESCRIPTION: Previously aircraft number 11, the aircraft was redesignated in 2001 as a Training Device, the Aircraft Maintenance Trainer. The AMT, in concert with the PTTs and the courseware, comprise the V-22 Maintenance Training System (VMTS), which will be used by all services. The AMT is currently undergoing a Block "A" upgrade and will be RFT in November 2004.
MANUFACTURER: Bell - Boeing
CONTRACT NUMBER: NA
TEE STATUS: NA
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jan 01	Oct 02	Onboard	C-601-3626 (Track M-050-6176)
				C-601-3628 (Track M-050-6176)
				C-601-3626 (Track M-601-6116)
				C-102-3630 (Track M-602-6326)
				C-198-3626 (Track M-602-6326)
				C-102-3636 (Track M-602-6326)
				C-198-3628 (Track M-602-6326)
				C-102-3627 (Track M-602-6326)
				C-102-3629 (Track M-602-6326)
				C-603-3626 (Track M-603-6156)

DEVICE: Avionics Functional V-22 Trainer (AFVT)
DESCRIPTION: The Avionics Functional V-22 Trainer is comprised of four student stations and one instructor-operator station. The student stations replicate the V-22 cockpit using touch screens in place of the actual cockpit controls. This allows the student stations to be reconfigured to either an MV-22 or CV-22 configuration.
MANUFACTURER: Bell - Boeing
CONTRACT NUMBER: NA
TEE STATUS: NA
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Aug 01	Nov 02	Onboard	C-102-3630 (Track M-602-6326)
				C-198-3626 (Track M-602-6326)
				C-102-3636 (Track M-602-6326)
				C-198-3628 (Track M-602-6326)
				C-102-3627 (Track M-602-6326)
				C-102-3629 (Track M-602-6326)

IV.A.2. TRAINING DEVICES

DEVICE: Landing Gear Part Task Trainer (LGPTT)
DESCRIPTION: The Landing Gear Part Task Trainer consists of two devices and replicates the strut, wheel, brake system, and landing gear system.
MANUFACTURER: Bell - Boeing
CONTRACT NUMBER: NA
TEE STATUS: NA

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jan 01	Oct 02	Onboard	C-603-3626 (Track M-603-6156) C-603-3627 (Track M-603-6156)

DEVICE: Mechanic Part Task Trainer (MPTT)
DESCRIPTION: The Mechanic Part Task Trainer is a replica of the wing (60%), from just beyond the mid-wing area out to and including the nacelle, and includes the gearboxes, drivetrain, engine, and propotor components. Additionally, it includes flight surfaces.
MANUFACTURER: Bell - Boeing
CONTRACT NUMBER: NA
TEE STATUS: NA

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jan 01	Oct 02	Onboard	C-601-3626 (Track M-050-6176) C-601-3626 (Track M-601-6116) C-603-3626 (Track M-603-6156) C-603-3627 (Track M-603-6156)

IV.A.2. TRAINING DEVICES

DEVICE: Power Plants Trainer Article (PPTA)
DESCRIPTION: The Power Plants Trainer Article is comprised of a full FSD wing with nacelles and FSD engines. One side of the wing includes EMD drivetrain components while the other side includes FSD components. This trainer is currently being upgraded to the Block "A" configuration and will be RFT in October 2003.

MANUFACTURER: Bell - Boeing

CONTRACT NUMBER: NA

TEE STATUS: NA

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jun 00	Jun 00	Onboard	C-601-3626 (Track M-050-6176) C-601-3626 (Track M-601-6116)

DEVICE: Sponson Part Task Trainer (SPTT)
DESCRIPTION: The SPTT is a replica of the left-hand sponson that includes selected Environmental Control Unit (ECU) and fuel system components.

MANUFACTURER: Bell - Boeing

CONTRACT NUMBER: NA

TEE STATUS: NA

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jan 01	Oct 02	Onboard	C-601-3626 (Track M-050-6176) C-601-3628 (Track M-050-6176) C-601-3626 (Track M-601-6116) C-601-3628 (Track M-601-6116)

IV.A.2. TRAINING DEVICES

DEVICE: Trainer Fault Insertion System (TFIS)
DESCRIPTION: The Trainer Fault Insertion System will allow the instructor to insert and remove selected faults into an MV-22 to enhance and reinforce training. The TFIS will be used in conjunction with the AMT.
MANUFACTURER: Raytheon Technical Services
CONTRACT NUMBER: NA
TEE STATUS: NA

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Dec 03	Dec 03	Pending	C-601-3628 (Track M-050-6176)
				C-601-3626 (Track M-601-6116)
				C-601-3628 (Track M-601-6116)
				C-102-3630 (Track M-602-6326)
				C-198-3626 (Track M-602-6326)
				C-102-3636 (Track M-602-6326)
				C-198-3628 (Track M-602-6326)
				C-102-3629 (Track M-602-6326)
				C-603-3626 (Track M-603-6156)
				C-603-3627 (Track M-603-6156)

IV.B. COURSEWARE REQUIREMENTS

IV.B.1. TRAINING SERVICES

COURSE / TYPE OF TRAINING	SCHOOL LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	DATE BEGIN
CV Pilot Delta Operator Course	VMMT-204 (FRS), 52842	2	2.0	
CV Pilot Delta Operator Course	VMMT-204 (FRS), 52842	2	2.0	
CV-22 Maintenance Delta Course for Avionics and Fuel Systems (Advanced Cadre)	VMMT-204 (FRS), 52842	2	2.0	
CV-22 Maintenance Delta Course for Avionics and Fuel Systems (Initial Cadre)	VMMT-204 (FRS), 52842	2	4.8	
MV-22B Aircraft Familiarization Training Course	VMMT-204 (FRS), 52842	2	1.2	
MV-22B Aircrew Familiarization Course (Crew Chief)	VMMT-204 (FRS), 52842	2	2.0	
MV-22B Airframes Organizational Maintenance Training Course (Instructor)	VMMT-204 (FRS), 52842	2	9.2	
MV-22B Airframes Organizational Maintenance Training Course (Initial Cadre)	VMMT-204 (FRS), 52842	2	1.2	
MV-22B Avionics/Electrical Organizational Maintenance Training Course (Instructors)	VMMT-204 (FRS), 52842	2	16.4	
MV-22B EMD Pilot Ground Course	VMMT-204 (FRS), 52842	2	2.0	
MV-22B LRIP Pilot Course (Validation)	VMMT-204 (FRS), 52842	2	2.8	
MV-22B LRIP Pilot Ground Course	VMMT-204 (FRS), 52842	2	3.6	
MV-22B LRIP Pilot Ground Course	VMMT-204 (FRS), 52842	2	3.6	
MV-22B Pilot Ground Course (Initial Cadre)	VMMT-204 (FRS), 52842	2	4.0	
MV-22B Pilot Ground Course (Instructors)	VMMT-204 (FRS), 52842	2	4.8	
MV-22B Pilot Ground Course (Instructors)	VMMT-204 (FRS), 52842	2	4.8	
MV-22B Pilot Ground Course (Instructors)	VMMT-204 (FRS), 52842	2	4.8	
MV-22B Power Plant and Related Course (Initial Cadre)	VMMT-204 (FRS), 52842	2	3.2	
MV-22B Power Plant and Related Course (Initial Cadre)	VMMT-204 (FRS), 52842	2	3.2	

IV.B.1. TRAINING SERVICES

COURSE / TYPE OF TRAINING	SCHOOL LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	DATE BEGIN
MV-22B Power Plant and Related Course (Instructors)	VMMT-204 (FRS), 52842	2	89.6	

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-2A-0001, MV-22 Pilot Training Course (Track M-2A-0001)

TRAINING ACTIVITY: VMMT-204

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID

Interactive Multimedia Instruction (IMI)

QTY REQD	DATE REQD	STATUS
3	Feb 02	Onboard

CIN, COURSE TITLE: C-601-3627, V-22 Basic Mechanics (Initial) Organizational Maintenance Course (Track M-050-6176)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID

Computer

Computer Aided Instruction Software - V-22 Basic Mechanic

MV-22 Curriculum Outline with Reproducible Master Copy

MV-22 Instructor Guide

MV-22 Student Evaluation Forms with Reproducible Master

MV-22 Student Workbook

Wall Charts and Transparencies

QTY REQD	DATE REQD	STATUS
1	Jan 01	Onboard
1	Jan 01	Onboard
50	Jan 01	Onboard
3	Jan 01	Onboard
50	Jan 01	Onboard
50	Jan 01	Onboard
1 set	Jan 01	Onboard

CIN, COURSE TITLE: C-601-3626, V-22 Power Plant and Related Systems (Initial) Organizational Maintenance Course (Track M-050-6176)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID

Computer

Computer Aided Instruction Software - V-22 Mechanic Power Plants and Related Systems

MV-22 Curriculum Outline with Reproducible Master Copy

MV-22 Instructor Guide

MV-22 Student Evaluation Forms with Reproducible Master

MV-22 Student Workbook

Wall Charts and Transparencies

QTY REQD	DATE REQD	STATUS
1	Jan 01	Onboard
1	Jan 01	Onboard
50	Jan 01	Onboard
3	Jan 01	Onboard
50	Jan 01	Onboard
50	Jan 01	Onboard
1 set	Jan 01	Onboard

CIN, COURSE TITLE: C-601-3628, V-22 Environmental Control System (Initial) Organizational Maintenance Course (Track M-050-6176)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID

Computer

Computer Aided Instruction Software - V-22 Mechanic Environmental Control System

QTY REQD	DATE REQD	STATUS
1	Jan 01	Onboard
1	Jan 01	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-601-3629, V-22 Enlisted Aircrew Course (Track M-050-6176)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID

Interactive Multimedia Instruction (IMI)

QTY REQD	DATE REQD	STATUS
3	Feb 02	Onboard

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-050-6176)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID

Computer Aided Instruction Software - V-22 Aircraft Familiarization

MV-22 Curriculum Outline with Reproducible Master Copy

MV-22 Instructor Guide

MV-22 Student Evaluation Forms with Reproducible Master

MV-22 Student Workbook

Wall Charts and Transparencies

QTY REQD	DATE REQD	STATUS
1	Jan 01	Onboard
50	Jan 01	Onboard
3	Jan 01	Onboard
50	Jan 01	Onboard
50	Jan 01	Onboard
1 set	Jan 01	Onboard

CIN, COURSE TITLE: C-601-3627, V-22 Basic Mechanics (Initial) Organizational Maintenance Course (Track M-601-6116)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID

Computer

Computer Aided Instruction Software - V-22 Basic Mechanic

MV-22 Curriculum Outline with Reproducible Master Copy

MV-22 Instructor Guide

MV-22 Student Evaluation Forms with Reproducible Master

MV-22 Student Workbook

Wall Charts and Transparencies

QTY REQD	DATE REQD	STATUS
1	Jan 01	Onboard
1	Jan 01	Onboard
50	Jan 01	Onboard
3	Jan 01	Onboard
50	Jan 01	Onboard
50	Jan 01	Onboard
1 set	Jan 01	Onboard

CIN, COURSE TITLE: C-601-3626, V-22 Power Plant and Related Systems (Initial) Organizational Maintenance Course (Track M-601-6116)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID

Computer

Computer Aided Instruction Software - V-22 Mechanic Power Plants and Related Systems

MV-22 Curriculum Outline with Reproducible Master Copy

MV-22 Instructor Guide

MV-22 Student Evaluation Forms with Reproducible Master

MV-22 Student Workbook

Wall Charts and Transparencies

QTY REQD	DATE REQD	STATUS
1	Jan 01	Onboard
1	Jan 01	Onboard
50	Jan 01	Onboard
3	Jan 01	Onboard
50	Jan 01	Onboard
50	Jan 01	Onboard
1 set	Jan 01	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-601-3628, V-22 Environmental Control System (Initial) Organizational Maintenance Course (Track M-601-6116)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer	1	Jan 01	Onboard
Computer Aided Instruction Software - V-22 Mechanic Environmental Control System	1	Jan 01	Onboard

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-601-6116)

TRAINING ACTIVITY: MTU 1035. NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction Software - V-22 Aircraft Familiarization	1	Jan 01	Onboard
MV-22 Curriculum Outline with Reproducible Master Copy	50	Jan 01	Onboard
MV-22 Instructor Guide	3	Jan 01	Onboard
MV-22 Student Evaluation Forms with Reproducible Master	50	Jan 01	Onboard
MV-22 Student Workbook	50	Jan 01	Onboard
Wall Charts and Transparencies	1 set	Jan 01	Onboard

CIN, COURSE TITLE: C-198-3626, V-22 Cockpit Management Systems (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer	1	Jan 01	Onboard
Computer Aided Instruction Software - V-22 Avionics Cockpit Management System	1	Jan 01	Onboard
MV-22 Curriculum Outline with Reproducible Master Copy	50	Jan 01	Onboard
MV-22 Instructor Guide	3	Jan 01	Onboard
MV-22 Student Evaluation Forms with Reproducible Master	50	Jan 01	Onboard
MV-22 Student Workbook	50	Jan 01	Onboard
Wall Charts and Transparencies	1 set	Jan 01	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-102-3636, V-22 Electrical Systems (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer	1	Jan 01	Onboard
Computer Aided Instruction Software - V-22 Avionics Electrical and Instruments	1	Jan 01	Onboard
MV-22 Curriculum Outline with Reproducible Master Copy	50	Jan 01	Onboard
MV-22 Instructor Guide	3	Jan 01	Onboard
MV-22 Student Evaluation Forms with Reproducible Master	50	Jan 01	Onboard
MV-22 Student Workbook	50	Jan 01	Onboard
Wall Charts and Transparencies	1 set	Jan 01	Onboard

CIN, COURSE TITLE: C-602-3626, V-22 Wire and Connector Repair (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer	1	Jan 01	Onboard
Computer Aided Instruction Software - V-22 Avionics Wire Repair	1	Jan 01	Onboard
MV-22 Curriculum Outline with Reproducible Master Copy	50	Jan 01	Onboard
MV-22 Instructor Guide	3	Jan 01	Onboard
MV-22 Student Evaluation Forms with Reproducible Master	50	Jan 01	Onboard
MV-22 Student Workbook	50	Jan 01	Onboard
Wall Charts and Transparencies	1 set	Jan 01	Onboard

CIN, COURSE TITLE: C-198-3628, V-22 Flight Control Systems (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer	1	Jan 01	Onboard
Computer Aided Instruction Software - V-22 Avionics Electronic Warfare System	1	Jan 01	Onboard
MV-22 Curriculum Outline with Reproducible Master Copy	50	Jan 01	Onboard
MV-22 Instructor Guide	3	Jan 01	Onboard
MV-22 Student Evaluation Forms with Reproducible Master	50	Jan 01	Onboard
MV-22 Student Workbook	50	Jan 01	Onboard
Wall Charts and Transparencies	1 set	Jan 01	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-102-3627, V-22 Avionics Systems (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer	1	Jan 01	Onboard
Computer Aided Instruction Software - V-22 Avionics Communications, Navigation,	1	Jan 01	Onboard
MV-22 Curriculum Outline with Reproducible Master Copy	50	Jan 01	Onboard
MV-22 Instructor Guide	3	Jan 01	Onboard
MV-22 Student Evaluation Forms with Reproducible Master	50	Jan 01	Onboard
MV-22 Student Workbook	50	Jan 01	Onboard
Wall Charts and Transparencies	1 set	Jan 01	Onboard

CIN, COURSE TITLE: C-102-3629, V-22 Forward Looking Infrared (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer	1	Jan 01	Onboard
Computer Aided Instruction Software - V-22 Avionics Forward Looking Infrared	1	Jan 01	Onboard

CIN, COURSE TITLE: C-102-3630, V-22 Electronic Warfare System (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer	1	Jan 01	Onboard
Computer Aided Instruction Software - V-22 Avionics Electronic Warfare System	1	Jan 01	Onboard

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction Software - V-22 Aircraft Familiarization	1	Jan 01	Onboard
MV-22 Curriculum Outline with Reproducible Master Copy	50	Jan 01	Onboard
MV-22 Instructor Guide	3	Jan 01	Onboard
MV-22 Student Evaluation Forms with Reproducible Master	50	Jan 01	Onboard
MV-22 Student Workbook	50	Jan 01	Onboard
Wall Charts and Transparencies	1 set	Jan 01	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-603-3626, V-22 Hydraulic Systems (Initial) Organizational Maintenance Course (Track M-603-6156)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer	1	Jan 01	Onboard
Computer Aided Instruction Software - V-22 Hydraulics	1	Jan 01	Onboard
MV-22 Curriculum Outline with Reproducible Master Copy	50	Jan 01	Onboard
MV-22 Instructor Guide	3	Jan 01	Onboard
MV-22 Student Evaluation Forms with Reproducible Master	50	Jan 01	Onboard
MV-22 Student Workbook	50	Jan 01	Onboard
Wall Charts and Transparencies	1 set	Jan 01	Onboard

CIN, COURSE TITLE: C-603-3627, V-22 Airframes/Composite Repair (Initial) Organizational Maintenance Course (Track M-603-6156)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction Software - V-22 Airframes	1	Jan 01	Onboard
Material Safety Data Sheets (MSDS) - Set of 25	3 sets	Jan 01	Onboard
Videotapes - Set of 9	1	Jan 01	Onboard

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-603-6156)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Computer Aided Instruction Software - V-22 Aircraft Familiarization	1	Jan 01	Onboard
MV-22 Curriculum Outline with Reproducible Master Copy	50	Jan 01	Onboard
MV-22 Instructor Guide	3	Jan 01	Onboard
MV-22 Student Evaluation Forms with Reproducible Master	50	Jan 01	Onboard
MV-22 Student Workbook	50	Jan 01	Onboard
Wall Charts and Transparencies	1 set	Jan 01	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-601-3627, V-22 Basic Mechanics (Initial) Organizational Maintenance Course (Track M-050-6176)
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 00-80T-88 Helicopter History and Aerodynamics	IETM	8	Jan 01	Onboard
NA 01-1A-509 Aircraft Weapons Systems Cleaning and Corrosion Control Manual	IETM	8	Jan 01	Onboard
NA 01-1A-8 Structural Hardware - Grits and Abrasive Materials	IETM	8	Jan 01	Onboard
NA 17-1-108 Torque Tools	IETM	8	Jan 01	Onboard
OPNAVINST 4790.2 series Naval Aviation Maintenance Program (NAMP)	IETM	8	Jan 01	Onboard
OPNAVINST 5101.2 Shipboard Accident Prevention Manual	IETM	8	Jan 01	Onboard
OPNAVINST P-5100.23B Safety and Health Program	IETM	8	Jan 01	Onboard

CIN, COURSE TITLE: C-601-3626, V-22 Power Plant and Related Systems (Initial) Organizational Maintenance Course (Track M-050-6176)
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	1	Jan 01	Onboard

CIN, COURSE TITLE: C-601-3628, V-22 Environmental Control System (Initial) Organizational Maintenance Course (Track M-050-6176)
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-050-6176)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard

CIN, COURSE TITLE: C-601-3627, V-22 Basic Mechanics (Initial) Organizational Maintenance Course (Track M-601-6116)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 00-80T-88 Helicopter History and Aerodynamics	IETM	8	Jan 01	Onboard
NA 01-1A-509 Aircraft Weapons Systems Cleaning and Corrosion Control Manual	IETM	8	Jan 01	Onboard
NA 01-1A-8 Structural Hardware - Grits and Abrasive Materials	IETM	8	Jan 01	Onboard
NA 17-1-108 Torque Tools	IETM	8	Jan 01	Onboard
OPNAVINST 4790.2 series Naval Aviation Maintenance Program (NAMP)	IETM	8	Jan 01	Onboard
OPNAVINST 5101.2 Shipboard Accident Prevention Manual	IETM	8	Jan 01	Onboard
OPNAVINST P-5100.23B Safety and Health Program	IETM	8	Jan 01	Onboard

CIN, COURSE TITLE: C-601-3626, V-22 Power Plant and Related Systems (Initial) Organizational Maintenance Course (Track M-601-6116)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	1	Jan 01	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-601-3628, V-22 Environmental Control System (Initial) Organizational Maintenance Course (Track M-601-6116)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-601-6116)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard

CIN, COURSE TITLE: C-198-3626, V-22 Cockpit Management Systems (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
901-970-715 Functional Test Procedure, AN/AVS-7 Night Vision Goggles/Heads-up Display, Revision A	IETM	1	Jan 01	Onboard
901-989-654 V-22 Crew System Design Definition Document, Volume 1 Revision D	IETM	1	Jan 01	Onboard
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	1	Jan 01	Onboard
A1-V22AB-WDM-000 Organizational Maintenance Wiring Diagram Manual dated September 1999	IETM	1	Jan 01	Onboard
RDH-AR-260E Prime Item Development Specification, Signal Data Converter (SDC)	IETM	1	Jan 01	Onboard

IV.B.3. TECHNICAL MANUALS

RDH-AR-263E IETM 1 Jan 01 Onboard
 Prime Item Development Specification, Converter Control Unit (CCU)

CIN, COURSE TITLE: C-102-3636, V-22 Electrical Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard
A1-V22AB-WDM-000 Organizational Maintenance Wiring Diagram Manual dated September 1999	IETM	8	Jan 01	Onboard

CIN, COURSE TITLE: C-602-3626, V-22 Wire and Connector Repair (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard
A1-V22AB-WDM-000 Organizational Maintenance Wiring Diagram Manual dated September 1999	IETM	8	Jan 01	Onboard
A1-V22AB-WRSD Organizational maintenance Wiring Systems Repair, Navy Model V-22 Aircraft	IETM	1	Jan 01	Onboard

CIN, COURSE TITLE: C-198-3628, V-22 Flight Control Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-NFM-000 NATOPS Flight Manual	IETM	1	Jan 01	Onboard

IV.B.3. TECHNICAL MANUALS

A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard
NA 01-1A-505 Installation Practices, Aircraft Electrical	IETM	1	Jan 01	Onboard
NA 01-1A-509 Aircraft Weapons Systems Cleaning and Corrosion Control Manual	IETM	1	Jan 01	Onboard

CIN, COURSE TITLE: C-102-3627, V-22 Avionics Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard

CIN, COURSE TITLE: C-102-3629, V-22 Forward Looking Infrared (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard
A1-V22AB-WDM-000 Organizational Maintenance Wiring Diagram Manual dated September 1999	IETM	8	Jan 01	Onboard

CIN, COURSE TITLE: C-102-3630, V-22 Electronic Warfare System (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
901-989-654 V-22 Crew System Design Definition Document, Volume 1 Revision D	IETM	8	Jan 01	Onboard

IV.B.3. TECHNICAL MANUALS

A1-V22AB-OTIS-000 IETM 8 Jan 01 Onboard
 Osprey Technical Information System, Organizational Maintenance

A1-V22AB-WDM-000 IETM 8 Jan 01 Onboard
 Organizational Maintenance Wiring Diagram Manual dated
 September 1999

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard

CIN, COURSE TITLE: C-603-3626, V-22 Hydraulic Systems (Initial) Organizational Maintenance Course (Track M-603-6156)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard

CIN, COURSE TITLE: C-603-3627, V-22 Airframes/Composite Repair (Initial) Organizational Maintenance Course (Track M-603-6156)

TRAINING ACTIVITY: MTU 1035 NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard
NA 01-1A-1 Integrated Electronic Technical Manual	IETM	1	Jan 01	Onboard
NA 01-1A-12 Structural Repair Fabrication, Maintenance and Repair of	IETM	1	Jan 01	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 01-1A-16 Transparent Plastics	IETM	1	Jan 01	Onboard
NA 01-1A-21 Non-Destructive Inspection Methods	IETM	1	Jan 01	Onboard
NA 01-1A-35 General Composite Repair	IETM	1	Jan 01	Onboard
NA 01-1A-507 Aircraft Fuel Cell and Tanks	IETM	1	Jan 01	Onboard
NA 01-1A-509 Aircraft Weapons Systems Cleaning and Corrosion Control Manual	IETM	1	Jan 01	Onboard
NA 01-1A-8 Structural Hardware - Grits and Abrasive Materials	IETM	1	Jan 01	Onboard
NA 01-1A-9 Structural Hardware - Aerospace Metals - General Data and Usage Factors	IETM	1	Jan 01	Onboard
NA 11-100-1.1 Cartridge Actuated Devices (Aircraft)	IETM	1	Jan 01	Onboard

CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-603-6156)

TRAINING ACTIVITY: MY 1035, NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-V22AB-OTIS-000 Osprey Technical Information System, Organizational Maintenance	IETM	8	Jan 01	Onboard

IV.C. FACILITY REQUIREMENTS

IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE/SUPPORT) BY ACTIVITY

CIN, TITLE: C-2A-0001, MV-22 Pilot Training Course (Track M-2A-0001)
 TRAINING ACTIVITY: VMMT-204
 LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Fully			

CIN, TITLE: C-601-3627, V-22 Basic Mechanics (Initial) Organizational Maintenance Course (Track M-601-6116)
 TRAINING ACTIVITY: NAMTRA MARUNIT
 LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Fully			

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Not Available			

IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE/SUPPORT) BY ACTIVITY

CIN, TITLE: C-601-3626, V-22 Power Plant and Related Systems (Initial) Organizational Maintenance Course (Track

M-601-6116)

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC		APPROVED	(KW)	A/C	OTHER	SPACE	(KW)	A/C	OTHER
CLASS	LAB	CLASS/LAB	POWER	TONS	CRITICAL	AVAILABLE	POWER	TONS	CRITICAL
						Fully			

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC		APPROVED	(KW)	A/C	OTHER	SPACE	(KW)	A/C	OTHER
CLASS	LAB	CLASS/LAB	POWER	TONS	CRITICAL	AVAILABLE	POWER	TONS	CRITICAL
						Not Available			

CIN, TITLE: C-601-3628, V-22 Environmental Control System (Initial) Organizational Maintenance Course (Track M-601-6116)

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC		APPROVED	(KW)	A/C	OTHER	SPACE	(KW)	A/C	OTHER
CLASS	LAB	CLASS/LAB	POWER	TONS	CRITICAL	AVAILABLE	POWER	TONS	CRITICAL
						Fully			

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC		APPROVED	(KW)	A/C	OTHER	SPACE	(KW)	A/C	OTHER
CLASS	LAB	CLASS/LAB	POWER	TONS	CRITICAL	AVAILABLE	POWER	TONS	CRITICAL
						Not Available			

IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE/SUPPORT) BY ACTIVITY

CIN, TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-601-6116)

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY				
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL	
						Fully				

CIN, TITLE: C-198-3626, V-22 Cockpit Management Systems (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY				
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL	
						Fully				

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY				
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL	
						Not Available				

IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE/SUPPORT) BY ACTIVITY

CIN, TITLE: C-102-3636, V-22 Electrical Systems (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC	APPROVED	(KW)	A/C	OTHER	SPACE	(KW)	A/C	OTHER	
CLASS	CLASS/LAB	POWER	TONS	CRITICAL	AVAILABLE	POWER	TONS	CRITICAL	
					Fully				

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC	APPROVED	(KW)	A/C	OTHER	SPACE	(KW)	A/C	OTHER	
CLASS	CLASS/LAB	POWER	TONS	CRITICAL	AVAILABLE	POWER	TONS	CRITICAL	
					Not Available				

CIN, TITLE: C-602-3626, V-22 Wire and Connector Repair (Initial) Organizational Maintenance Course (Track M-602-6326)
TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC	APPROVED	(KW)	A/C	OTHER	SPACE	(KW)	A/C	OTHER	
CLASS	CLASS/LAB	POWER	TONS	CRITICAL	AVAILABLE	POWER	TONS	CRITICAL	
					Fully				

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC	APPROVED	(KW)	A/C	OTHER	SPACE	(KW)	A/C	OTHER	
CLASS	CLASS/LAB	POWER	TONS	CRITICAL	AVAILABLE	POWER	TONS	CRITICAL	
					Not Available				

IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE/SUPPORT) BY ACTIVITY

CIN, TITLE: C-198-3628, V-22 Flight Control Systems (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC		APPROVED	(KW)	A/C	OTHER	SPACE	(KW)	A/C	OTHER
CLASS	LAB	CLASS/LAB	POWER	TONS	CRITICAL	AVAILABLE	POWER	TONS	CRITICAL
						Fully			

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC		APPROVED	(KW)	A/C	OTHER	SPACE	(KW)	A/C	OTHER
CLASS	LAB	CLASS/LAB	POWER	TONS	CRITICAL	AVAILABLE	POWER	TONS	CRITICAL
						Not Available			

CIN, TITLE: C-102-3627, V-22 Avionics Systems (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC		APPROVED	(KW)	A/C	OTHER	SPACE	(KW)	A/C	OTHER
CLASS	LAB	CLASS/LAB	POWER	TONS	CRITICAL	AVAILABLE	POWER	TONS	CRITICAL
						Fully			

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC		APPROVED	(KW)	A/C	OTHER	SPACE	(KW)	A/C	OTHER
CLASS	LAB	CLASS/LAB	POWER	TONS	CRITICAL	AVAILABLE	POWER	TONS	CRITICAL
						Not Available			

IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE/SUPPORT) BY ACTIVITY

CIN, TITLE: C-102-3629, V-22 Forward Looking Infrared (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Fully			

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Not Available			

CIN, TITLE: C-102-3630, V-22 Electronic Warfare System (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Fully			

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Not Available			

IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE/SUPPORT) BY ACTIVITY

CIN, TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-602-6326)

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Fully			

CIN, TITLE: C-603-3626, V-22 Hydraulic Systems (Initial) Organizational Maintenance Course (Track M-603-6156)

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Fully			

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Not Available			

IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE/SUPPORT) BY ACTIVITY

CIN, TITLE: C-603-3627, V-22 Airframes/Composite Repair (Initial) Organizational Maintenance Course (Track M-603-6156)

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: Jan 2010

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Not Available			

CIN, TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course (Track M-603-6156)

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

REQUIRED RFT DATE: May 2002

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Fully			

REQUIRED RFT DATE: Feb 2007

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			FACILITIES SUPPORT AVAILABILITY			
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL	SPACE AVAILABLE	(KW) POWER	A/C TONS	OTHER CRITICAL
						Not Available			

IV.C.2. FACILITY REQUIREMENTS DETAILED BY ACTIVITY AND COURSE

TRAINING ACTIVITY: VMMT-204

LOCATION, UIC: MCAS New River, 52842
CIN, COURSE TITLE: C-2A-0001, MV-22 Pilot Training Course
BUILDING AND ROOM NUMBER: AS-318
TYPE OF FACILITY PROJECT: Alteration
FACILITY PROJECT NUMBER: P-617
REQUIRED PROJECT AWARD: Jan 2005
REQUIRED UCD: Feb 2007
REQUIRED RFT: Feb 2007
STATUS: Pending

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842
CIN, COURSE TITLE: C-102-3627, V-22 Avionics Systems (Initial) Organizational Maintenance Course
BUILDING AND ROOM NUMBER: AS-510
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: May 2002
REQUIRED RFT: May 2002
STATUS: Complete

BUILDING AND ROOM NUMBER: MTU High Bays
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P648
REQUIRED PROJECT AWARD: Jan 2005
REQUIRED UCD: Feb 2007
REQUIRED RFT: Feb 2007
STATUS: Pending

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842
CIN, COURSE TITLE: C-102-3629, V-22 Forward Looking Infrared (Initial) Organizational Maintenance Course
BUILDING AND ROOM NUMBER: AS-510
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: May 2002
REQUIRED RFT: May 2002
STATUS: Complete

IV.C.2. FACILITY REQUIREMENTS DETAILED BY ACTIVITY AND COURSE

BUILDING AND ROOM NUMBER: MTU High Bays
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P648
REQUIRED PROJECT AWARD: Jan 2005
REQUIRED UCD: Feb 2007
REQUIRED RFT: Feb 2007
STATUS: Pending

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842
CIN, COURSE TITLE: C-102-3630, V-22 Electronic Warfare System (Initial) Organizational Maintenance Course
BUILDING AND ROOM NUMBER: AS-510
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: May 2002
REQUIRED RFT: May 2002
STATUS: Complete

BUILDING AND ROOM NUMBER: MTU High Bays
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P648
REQUIRED PROJECT AWARD: Jan 2005
REQUIRED UCD: Feb 2007
REQUIRED RFT: Feb 2007
STATUS: Pending

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842
CIN, COURSE TITLE: C-102-3636, V-22 Electrical Systems (Initial) Organizational Maintenance Course
BUILDING AND ROOM NUMBER: AS-510
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: May 2002
REQUIRED RFT: May 2002
STATUS: Complete

BUILDING AND ROOM NUMBER: MTU High Bays
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P648
REQUIRED PROJECT AWARD: Jan 2005
REQUIRED UCD: Feb 2007
REQUIRED RFT: Feb 2007
STATUS: Pending

IV.C.2. FACILITY REQUIREMENTS DETAILED BY ACTIVITY AND COURSE

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

CIN, COURSE TITLE: C-198-3626, V-22 Cockpit Management Systems (Initial) Organizational Maintenance Course

BUILDING AND ROOM NUMBER: AS-510

TYPE OF FACILITY PROJECT: MILCON

FACILITY PROJECT NUMBER: P-585

REQUIRED PROJECT AWARD: Dec 1997

REQUIRED UCD: May 2002

REQUIRED RFT: May 2002

STATUS: Complete

BUILDING AND ROOM NUMBER: MTU High Bays

TYPE OF FACILITY PROJECT: MILCON

FACILITY PROJECT NUMBER: P648

REQUIRED PROJECT AWARD: Jan 2005

REQUIRED UCD: Feb 2007

REQUIRED RFT: Feb 2007

STATUS: Pending

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

CIN, COURSE TITLE: C-198-3628, V-22 Flight Control Systems (Initial) Organizational Maintenance Course

BUILDING AND ROOM NUMBER: AS-510

TYPE OF FACILITY PROJECT: MILCON

FACILITY PROJECT NUMBER: P-585

REQUIRED PROJECT AWARD: Dec 1997

REQUIRED UCD: May 2002

REQUIRED RFT: May 2002

STATUS: Complete

BUILDING AND ROOM NUMBER: MTU High Bays

TYPE OF FACILITY PROJECT: MILCON

FACILITY PROJECT NUMBER: P648

REQUIRED PROJECT AWARD: Jan 2005

REQUIRED UCD: Feb 2007

REQUIRED RFT: Feb 2007

STATUS: Pending

IV.C.2. FACILITY REQUIREMENTS DETAILED BY ACTIVITY AND COURSE

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842
CIN, COURSE TITLE: C-600-3626, V-22 Aircraft Familiarization (Initial) Organizational Maintenance Course
BUILDING AND ROOM NUMBER: AS-510
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: May 2002
REQUIRED RFT: May 2002
STATUS: Complete

BUILDING AND ROOM NUMBER: AS-510
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: May 2002
REQUIRED RFT: May 2002
STATUS: Complete

BUILDING AND ROOM NUMBER: AS-510
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: May 2002
REQUIRED RFT: May 2002
STATUS: Complete

BUILDING AND ROOM NUMBER: MTU High Bays
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P648
REQUIRED PROJECT AWARD: Jan 2005
REQUIRED UCD: Feb 2007
REQUIRED RFT: Feb 2007
STATUS: Pending

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842
CIN, COURSE TITLE: C-601-3626, V-22 Power Plant and Related Systems (Initial) Organizational Maintenance Course
BUILDING AND ROOM NUMBER: AS-510
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: May 2002
REQUIRED RFT: May 2002
STATUS: Complete

IV.C.2. FACILITY REQUIREMENTS DETAILED BY ACTIVITY AND COURSE

BUILDING AND ROOM NUMBER: MTU High Bays
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P648
REQUIRED PROJECT AWARD: Jan 2005
REQUIRED UCD: Feb 2007
REQUIRED RFT: Feb 2007
STATUS: Pending

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842
CIN, COURSE TITLE: C-601-3627, V-22 Basic Mechanics (Initial) Organizational Maintenance Course
BUILDING AND ROOM NUMBER: AS-510
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: May 2002
REQUIRED RFT: May 2002
STATUS: Complete

BUILDING AND ROOM NUMBER: MTU High Bays
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P648
REQUIRED PROJECT AWARD: Jan 2005
REQUIRED UCD: Feb 2007
REQUIRED RFT: Feb 2007
STATUS: Pending

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842
CIN, COURSE TITLE: C-601-3628, V-22 Environmental Control System (Initial) Organizational Maintenance Course
BUILDING AND ROOM NUMBER: AS-510
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: May 2002
REQUIRED RFT: May 2002
STATUS: Complete

BUILDING AND ROOM NUMBER: MTU High Bays
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P648
REQUIRED PROJECT AWARD: Jan 2005
REQUIRED UCD: Feb 2007
REQUIRED RFT: Feb 2007
STATUS: Pending

IV.C.2. FACILITY REQUIREMENTS DETAILED BY ACTIVITY AND COURSE

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842
CIN, COURSE TITLE: C-602-3626, V-22 Wire and Connector Repair (Initial) Organizational Maintenance Course
BUILDING AND ROOM NUMBER: AS-510
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: May 2002
REQUIRED RFT: May 2002
STATUS: Complete

BUILDING AND ROOM NUMBER: MTU High Bays
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P648
REQUIRED PROJECT AWARD: Jan 2005
REQUIRED UCD: Feb 2007
REQUIRED RFT: Feb 2007
STATUS: Pending

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842
CIN, COURSE TITLE: C-603-3626, V-22 Hydraulic Systems (Initial) Organizational Maintenance Course
BUILDING AND ROOM NUMBER: AS-510
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P-585
REQUIRED PROJECT AWARD: Dec 1997
REQUIRED UCD: May 2002
REQUIRED RFT: May 2002
STATUS: Complete

BUILDING AND ROOM NUMBER: MTU High Bays
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: P648
REQUIRED PROJECT AWARD: Jan 2005
REQUIRED UCD: Feb 2007
REQUIRED RFT: Feb 2007
STATUS: Pending

IV.C.2. FACILITY REQUIREMENTS DETAILED BY ACTIVITY AND COURSE

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842
CIN, COURSE TITLE: C-603-3627, V-22 Airframes/Composite Repair (Initial) Organizational Maintenance Course
BUILDING AND ROOM NUMBER: New building
TYPE OF FACILITY PROJECT: MILCON
FACILITY PROJECT NUMBER: 526
REQUIRED PROJECT AWARD: Jan 2008
REQUIRED UCD: Jan 2010
REQUIRED RFT: Jan 2010
STATUS: Pending

IV.C.3. FACILITY PROJECT SUMMARY BY PROGRAM

TRAINING ACTIVITY: VMMT-204

LOCATION, UIC: MCAS New River, 52842

PROJECT NUMBER	TOTAL SCOPE	PROJECTED AWARD DATE	PROJECTED UCD	STATUS
P-617				Pending

TRAINING ACTIVITY: NAMTRA MARUNIT

LOCATION, UIC: MCAS New River, 52842

PROJECT NUMBER	TOTAL SCOPE	PROJECTED AWARD DATE	PROJECTED UCD	STATUS
526				Pending
P-585				Complete
P648				Pending

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
ACNO	Promulgated Update NTP	Jan 92	Complete
TSA	Approved Engineering, Manufacturing, and Development Contract	Oct 92	Complete
TSA	Began Initial Training	Aug 94	Complete
TSA	Began Training Advisory Services	Aug 94	Complete
TSA	Approved V-22 Milestone II+	Sep 94	Complete
TSA	Approved Acquisition Decision Memorandum	Feb 95	Complete
ACNO	Promulgated Update NTP	Aug 95	Complete
TSA	Conducted NTP Conference	Nov 95	Complete
CMC	Began Ordering Enlisted Personnel (USMC MMEA-84)	FY97	Complete
CMC	Began Ordering Officer Personnel (USMC MMOA-2)	FY97	Complete
TSA	Awarded Curriculum Material and Maintenance Training Devices Contract	FY97	Complete
CMC	Allocated Fleet, Instructor, and Support Billets	FY98	Complete
CMC	Ordered Instructors and Support Personnel	FY98	Complete
CMC	Promulgated V-22 T/O	FY98	Complete
OPO	Initiated OPNAV Form 1000/4A	FY99	Complete
OPTEVFOR	Conducted OPEVAL	FY99	Complete
TSA	Delivered Curricula Materials	FY99	Complete
TSA	Delivered Technical Training Equipment	FY99	Complete
OPTEVFOR	Completed MV-22 OT&E	May 00	Complete
OPTEVFOR	Completed OPEVAL	Jul 00	Complete
MCCDC	Approved and Forwarded Operational Requirements Document	Aug 00	Complete
PDA	Approved Manpower Estimate Report (MER)	Sep 00	Complete
TSA	Promulgated Update Joint Training Plan	Nov 00	Complete
OPO	Ordered Instructors and Support Personnel for Training	FY01	Complete
TSA	Began VMMT-204 Initial Cadre and Instructor Training	FY01	Complete
TSA	Completed Draft JTSP	Aug 03	Complete
PDA	Begin delivery of Block "A" Aircraft at VMX-22	Oct 03	Pending
TSA	Begin VMX-22 Stand-up	Nov 03	Pending
PDA	Begin OT-IIF	Nov 04	Pending
PDA	Begin OT-IIG	Jan 05	Pending
PDA	Complete Delivery of Block "A" Aircraft at VMX-22	Jun 05	Pending
PDA	Achieve Milestone III	Sep 05	Pending

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
PDA	Begin VMMT-204 Return to Flight	Sep 05	Pending
PDA	Attain Milestone III	FY05	Pending
TSA	Begin Transition and Follow-on Training	FY05	Pending
PDA	Attain Initial Operating Capability for MV-22	Nov 05	Pending
OPO	Begin First MV-22 Operational Squadron (USMC)	Sep 06	Pending
NAVICP	Achieve Material Support Date	Oct 08	Pending
NAVICP	Achieve Navy Support Date	Oct 09	Pending

PART VI - DECISION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
Intermediate Level Engine Maintenance Training for Initial Fleet Cadre Training	NAVAIR		Closed
USAF Manning and Basing Requirements	HQ USAF		Closed
Role of NAMTRA MARUNIT and FRS/Consolidated Maintenance Training Unit	CNO/N789		Closed
Memorandum of Agreement	HQ		Closed
Verification of Technical Publications	CNO		Closed
Training Track Length and "A" School Prerequisites for MOS 6325	NAVAIR		Closed
V-22 Aircrew Training	HMX-1 (MOTT)		Closed
Follow-on FRS Training Concept	MCCDC		Closed
Navy and Air Force Staffing Plans	HQ		Open
Navy Combat Search and Rescue (CSAR) Training	CNO		Open
Navy Manning and Basing Requirements	NAVPERSCOM		Open
Air Force Participation in Joint Aircrew Training	HQ USAF		Ongoing
Training Requirements for the Air Force	HQ USAF		Ongoing



PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL

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